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MR. JOSEPH G. ROSENGARTEN

Zantzinger, Borie and Medary, Architects

THE

YEAR BOOK

OF THE

TWENTY FIRST ANNVAL

ARCHITECTVRAL EXHIBITION

Held by

THE PHILADELPHIA CHAPTER

of The American Inſtitute of Architects

And

THE T SQVARE CLVB

of Philadelphia

In the Galleries of

THE ART CLVB OF PHILADELPHIA

April 11 to May 2, MCMXV.

Printed for

THE EXHIBITION BOARD

by The A. H. Sickler Co.

EHF 1915

THE EXHIBITION BOARD

Nineteen Hundred and Fifteen

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FOREWORD

IN compiling the Year Book of the Twenty-first Annual Architectural Exhibition emphasis has not been laid on any one phase of architectural achievement.

Following the precedent of the last few years, of including in the Year Book some examples of Old Colonial Architecture, the Board has this year selected Ironwork of the Colonial Period for illustration, and it is hoped that the pages devoted to this will prove interesting and valuable.

It is thought that the inclusion, in the text, of the several designs of bookplates, will lend an additional note of interest, as showing the lighter side of the architect's activities.

The Board takes this opportunity to convey to the President and Directors of the Art Club its very hearty thanks for the use of their galleries.

The Board also begs to thank the architects and other artists who have contributed their works for exhibition.

To Mr. Edwin H. Fetterolf, the Board is indebted for the designs for the Cover and Title page of the Year Book.

The attention of architects, and all others interested in this publication, is directed to the advertising pages, in which will be found much valuable information for constant reference.

352831

THE WALTER COPE MEMORIAL PRIZE

Endowed by Mrs. Walter Cope, in memory of her husband, who was one of the founders of the T Square Club, and awarded annually by the T Square Club to the winner of a competition for projects on Municipal Improvement or Landscape Architecture. It is now of a value of about one hundred and fifty dollars, and is expended for Architectural Books or Architectural Education chosen in consultation with the Executive Committee of the T Square Club.

The prize winners and the subjects for competition have been as follows:

1904—A Monumental Entrance to Fairmount Park, Philadelphia. HENRY B. WARD
1905—A Recreation Park and Pier on the Delaware River Front. ANDREW J. SAUER.
1906—A Subway Kiosk. C. EDGAR COPE.
1907—A Covered Bridge Across Market Street, Philadelphia. FRANCIS PALMER SMITH.
1908—A Monument at the Entrance of the Harbor, Philadelphia. GRANT M. SIMON.
1909—Two Types of Electric Light Standards for Street Lighting. HENRY EDWIN RIEGER.
1910—Treatment of a Public Square on the Parkway. WM. RICHARD M. KEAST.
1911—The Treatment of a City Block of Two-story Dwellings. A. RAYMOND HOLLAND.
1912—A memorial to John Eriesson on the Parkway.
1st Prize—GABRIEL B. ROTHKUGEL. 2d Prize—PETER F. GETZ.
1913—Design for a New Case for Liberty Bell, Independence Hall. JOHN F. HARBESON.
1914—A Monumental Feature at the End of South Broad Street.
1st Prize—THOMAS ASH. 2d Prize—S. A. LOVE, JR.
1915—Treatment of an Open Place at the Head of the Bridge over the Schuylkill River at Packer Avenue, South Philadelphia.
1st Prize—W. P. BARNEY. 2d Prize—F. W. HASTINGS.

BOOKPLATE DESIGNED BY E. H. FETTEROLF

THE JOHN STEWARDSON MEMORIAL SCHOLARSHIP IN ARCHITECTURE

FOUNDED 1897

(PRIOR TO 1897 THE TRAVELING SCHOLARSHIP OF THE UNIVERSITY OF PENNSYLVANIA)

Endowed in memory of the late John Stewardson and awarded every year or alternate year by a Managing Committee, consisting of one member of the Board of Trustees of the University of Pennsylvania, one member of the Corps of Instruction of the School of Architecture of the said University, and three practicing Architects of the city of Philadelphia, two representing respectively the Philadelphia Chapter of the American Institute of Architects and the T Square Club of Philadelphia, and the third being elected by the four other Members of the Managing Committee. It is of a value of one thousand dollars, the sum being expended in pursuing Architectural study either in the United States or in other countries. Preliminary examinations are required except for graduates of any recognized School of Architecture. Open to any person or persons under 30 years of age, who shall have studied or practiced Architecture in the State of Pennsylvania for the period of at least one year immediately preceding the examination.

AWARDS

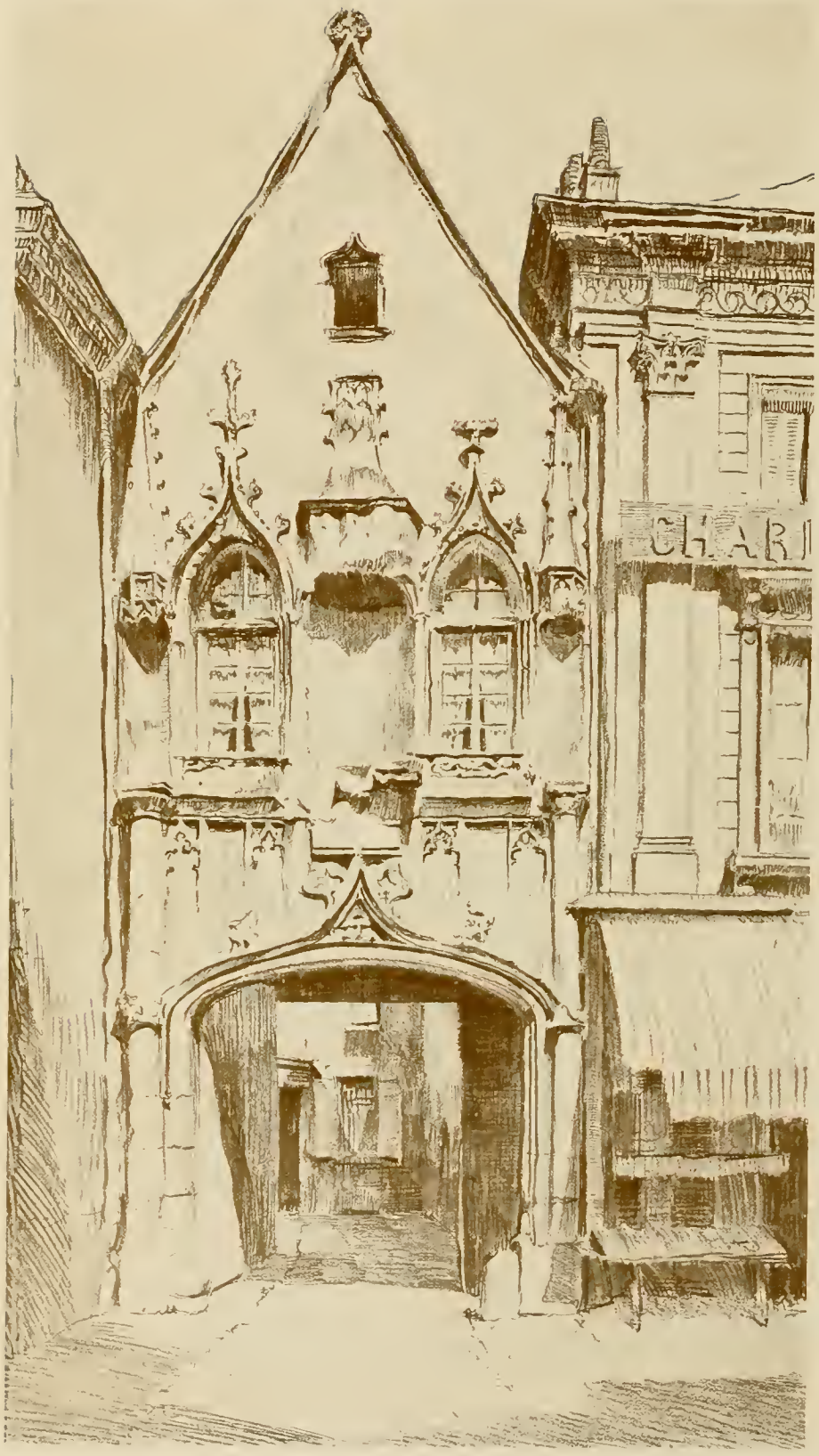
UNIVERSITY SCHOLARSHIP

1893—A Building for a Numismatic Society. JAMES P. JAMIESON.
1894—A Railroad Station. GEORGE BISPHAM PAGE.
1895—A Savings Bank. PERCY ASH.
1896—A Post Office and a Custom House. ALBERT KELSEY.

STEWARDSON SCHOLARSHIP

1897—A City Church. HERMAN LOUIS DUHRING, JR.
1898—A Farm House and Farmsteading. WILLIAM CHARLES HAYS.
1899—A School of Architecture, with a Museum of Architectural Casts. ARTHUR HOWELL BROCKIE.
1900—The Improvement of the Entrance to Fairmount Park, Philadelphia. ALFRED MORTON GITHENS.
1901—A Casino and Bath at a Health Resort among the Mountains. IRA WILSON HOOVER.
1902—A Boys' School in the Country. JOHN MOLITOR.
1903—An Official Building for a County. WALTER W. JUDELL.
1904—A Terminal Station of an Underground Electric Railway. CHRISTIAN GEORGE SPOERL.
1905—A Monument Commemorative of the Independence of Cuba. CARL EUGENE HOWELL.
1906—An Auditorium Building for a University. W. WALTER SHARPLEY.
1908—A Monumental Bridge. HARVEY ARTHUR SCHWAB.
1909—A Naval Pantheon. GRANT MILES SIMON.
1910—The Casino of a Country Club. ANTONIO DI NARDO.
1911—A Maritime Station. WILLIAM J. H. HOUGH.
1912—An Archæological Institute. RUSSELL G. HOWARD.
1913—Building for the Supreme Court of the United States. CLAUDE WILMOT STEDMAN.
1914—A Custom House—WILLIAM C. STANTON.

BOOKPLATE DESIGNED BY EDMUND B. GILCHRIST



GOTHIC HOUSE, TOURS, FRANCE

Sketch by J. F. Abele

BASILICA PALLADIANA, VICENZA, ITALY

Sketch by J. F. Abele

STUDY OF A BRIDGE, I

DONALD M. KIRKPATRICK

STUDY OF A BRIDGE, II

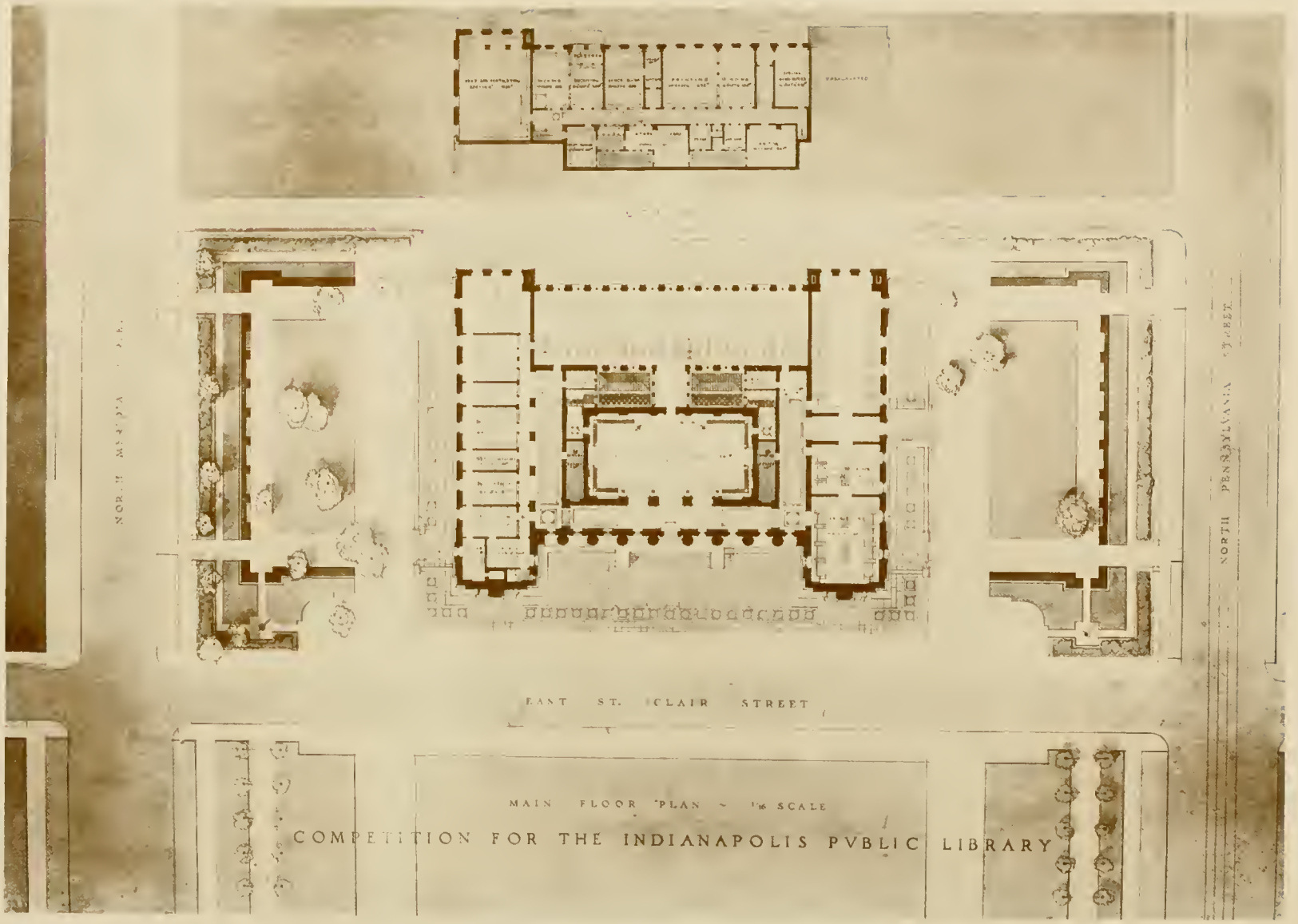
DONALD M. KIRKPATRICK

STUDY OF A BRIDGE, III

Donald M. Kirkpatrick

PUBLIC, ECCLESIASTICAL AND COLLEGIATE BUILDINGS

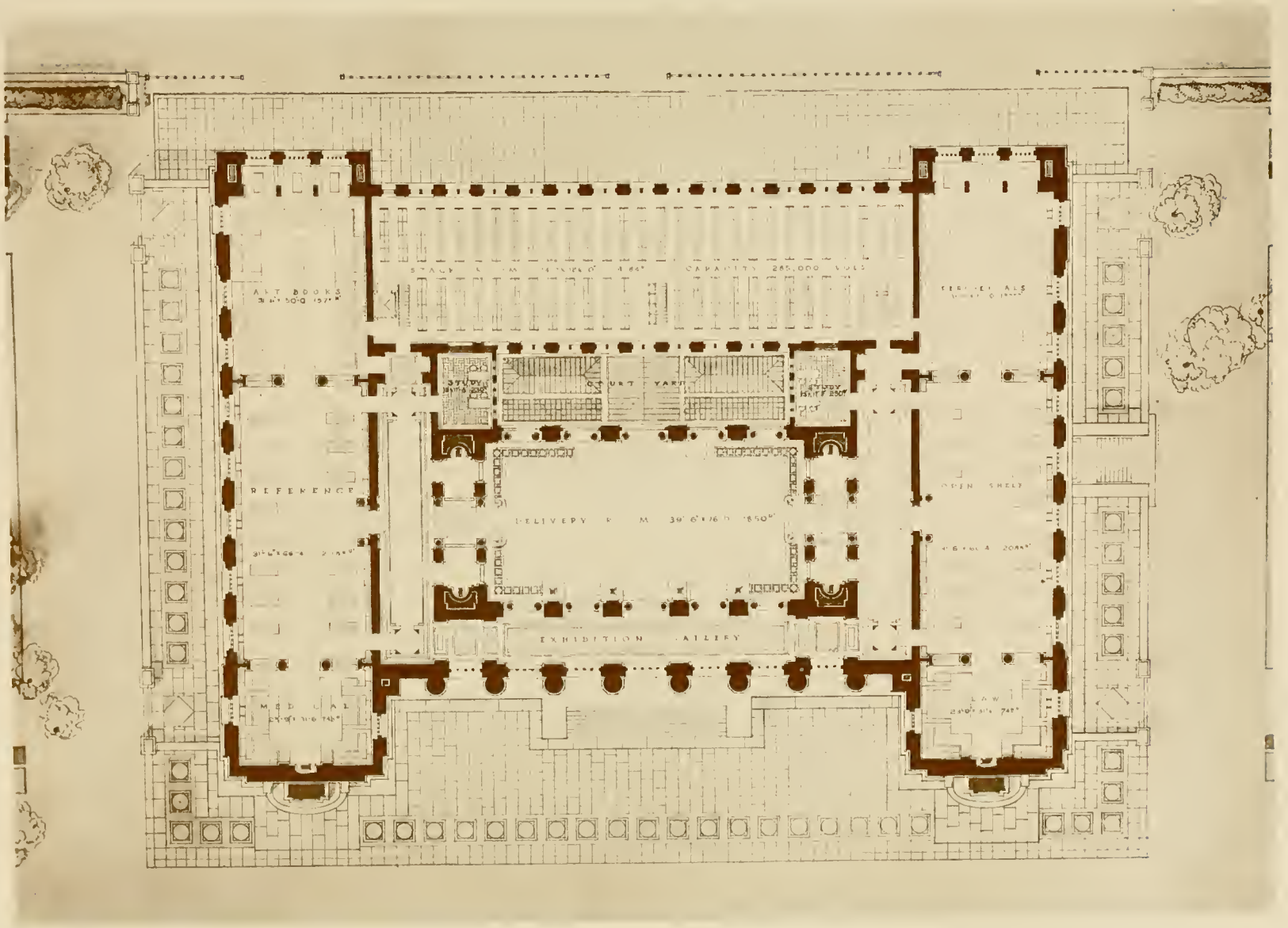
OVER-DOOR BY JEAN GOUJON
Musee Carnavalet, Paris
SKETCH BY GEORGE HOWE



Main Floor Plan

ACCEPTED DESIGN, THE INDIANAPOLIS PUBLIC LIBRARY

Paul P. Cret and Zantzinger, Borie and Medary, Associated Architects



Second Floor Plan

ACCEPTED DESIGN, THE INDIANAPOLIS PUBLIC LIBRARY

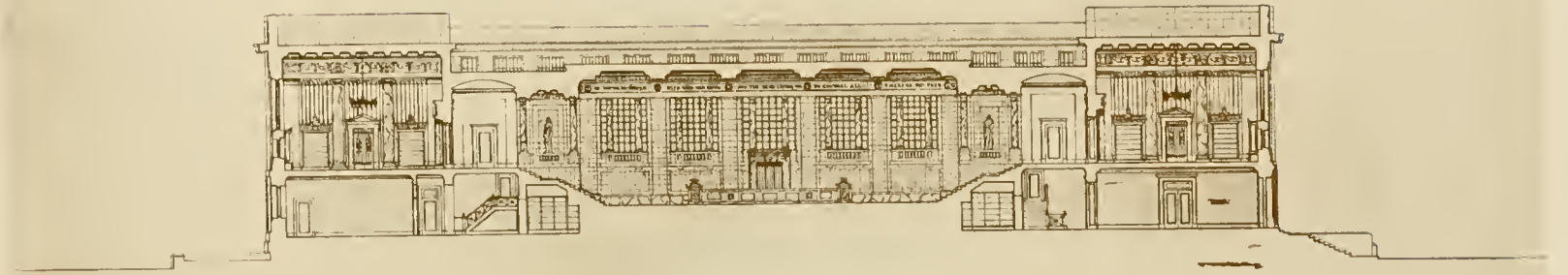
Paul P. Cret and Zantzinger, Borie and Medary, Associated Architects

South Elevation

ACCEPTED DESIGN, THE INDIANAPOLIS PUBLIC LIBRARY

Paul P. Cret and Zantzinger, Borie and Medary, Associated Architects

TRANSVERSE SECTION ~ 1/16 SCALE



LONGITVDINAL SECTION ~ 1/16 SCALE

Sections

ACCEPTED DESIGN, THE INDIANAPOLIS PUBLIC LIBRARY

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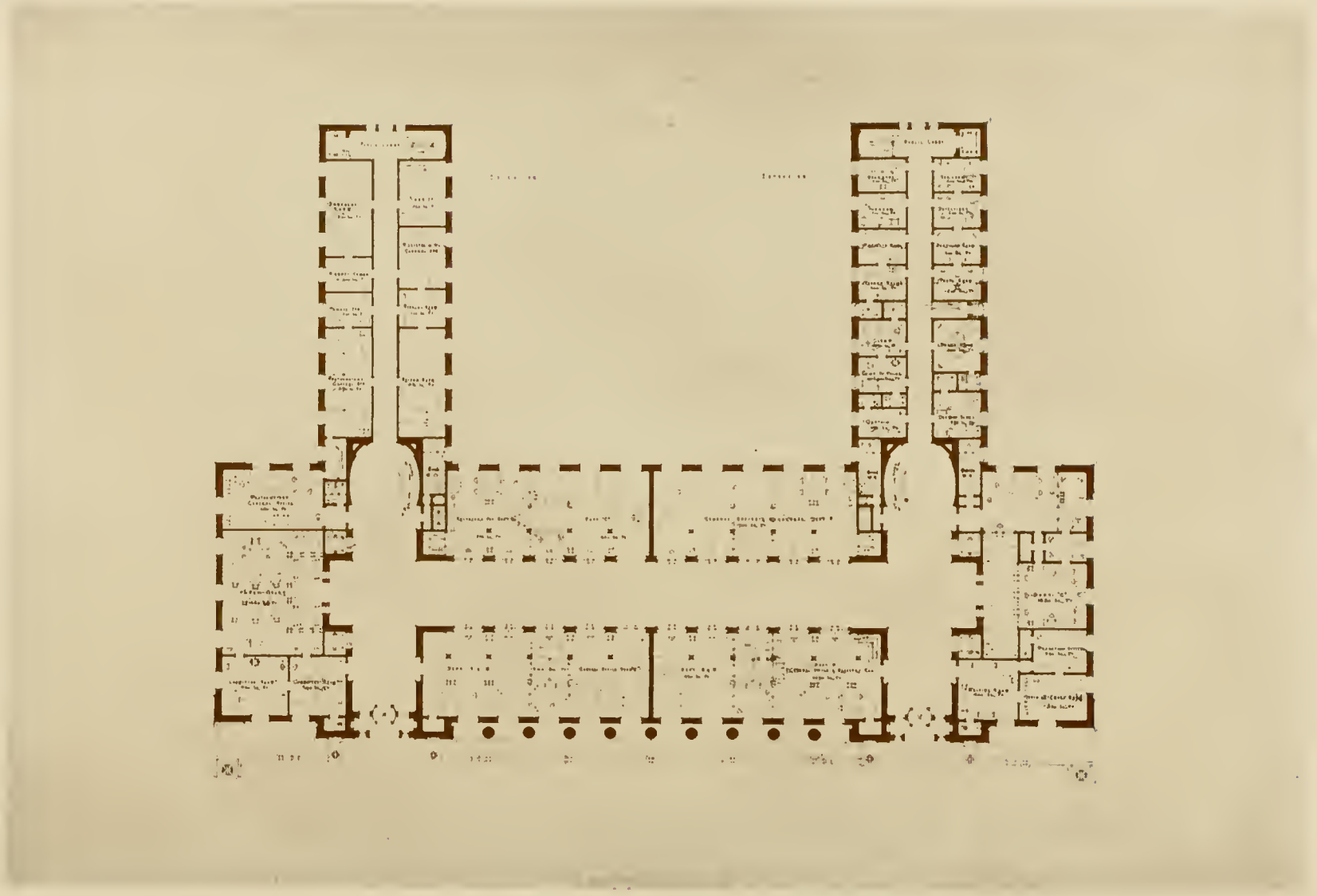


First Floor Plan

ACCEPTED DESIGN, NEW CASTLE COUNTY-WILMINGTON PUBLIC BUILDINGS COMPETITION

Wilmington, Delaware

JOHN D. THOMPSON, JR., AND PALMER, HORNBOSTEL AND JONES, ASSOCIATED ARCHITECTS

King Street Elevation

ACCEPTED DESIGN, NEW CASTLE COUNTY WILMINGTON PUBLIC BUILDINGS COMPETITION

Wilmington, Del.

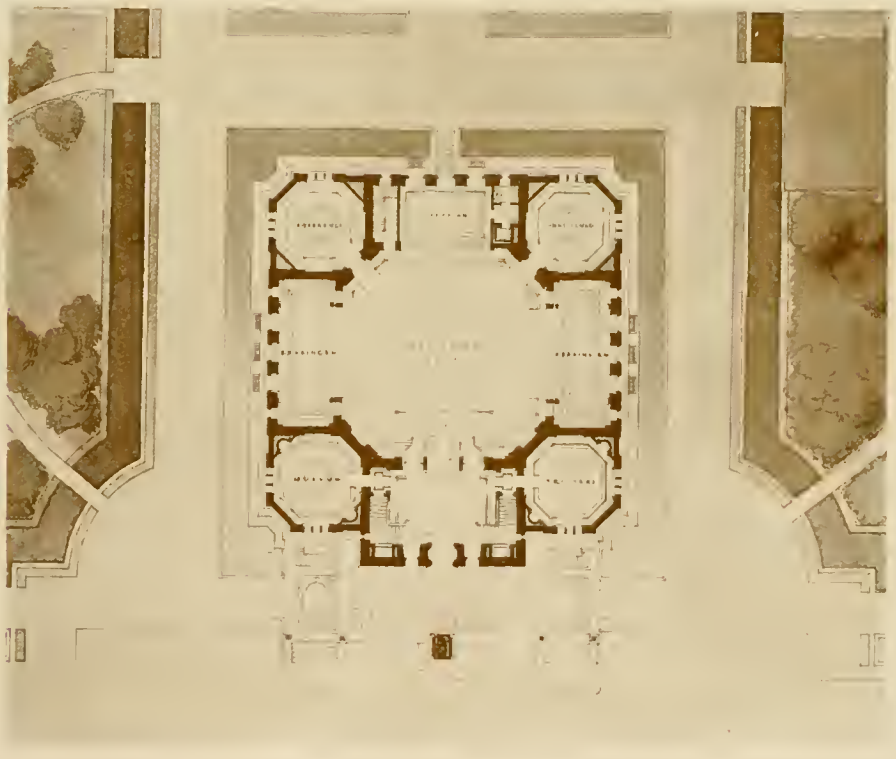
JOHN D. THOMPSON, JR., AND PALMER, HORNBOSTEL AND JONES, ASSOCIATED ARCHITECTS

NEW HAMILTON COUNTY COURT HOUSE

Cincinnati, Ohio

Rankin, Kellogg and Crane, Architects

Front Elevation



Plan

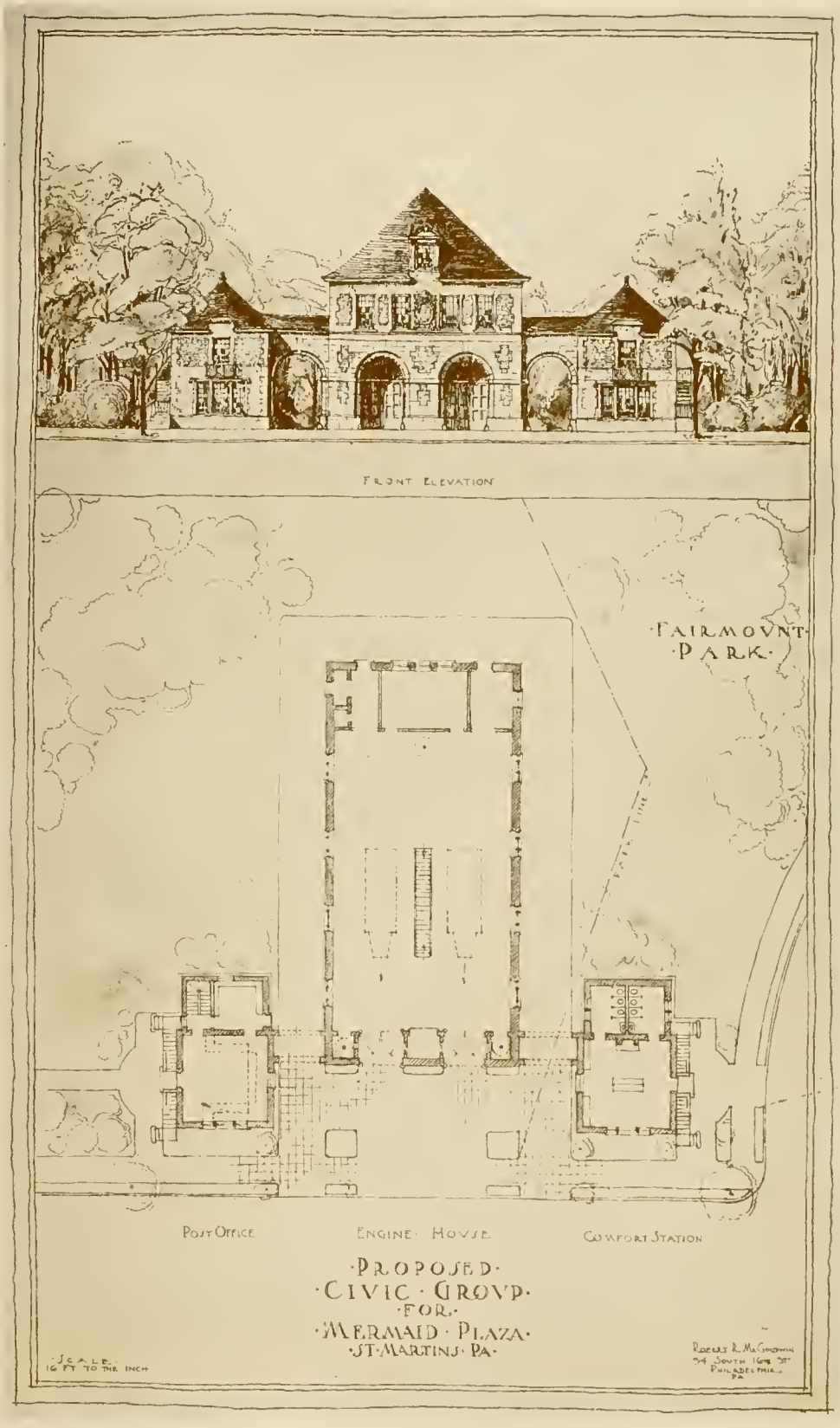
THE McKINLEY BIRTHPLACE MEMORIAL COMPETITION

Niles, Ohio

ZANTZINGER, BORIE AND MEDARY, ARCHITECTS

FIRE AND POLICE STATION FOR THE CITY OF PHILADELPHIA

SIMON AND BASSETT, ARCHITECTS



PROPOSED CIVIC GROUP, ST. MARTINS, PHILADELPHIA

ROBERT R. McGOODWIN, ARCHITECT

BIRD HOUSE FOR THE ZOÖLOGICAL SOCIETY OF PHILADELPHIA

MELLOR AND MEIGS, ARCHITECTS

COMPETITION FOR THE SCOTT MEMORIAL FOUNTAIN

Detroit, Michigan

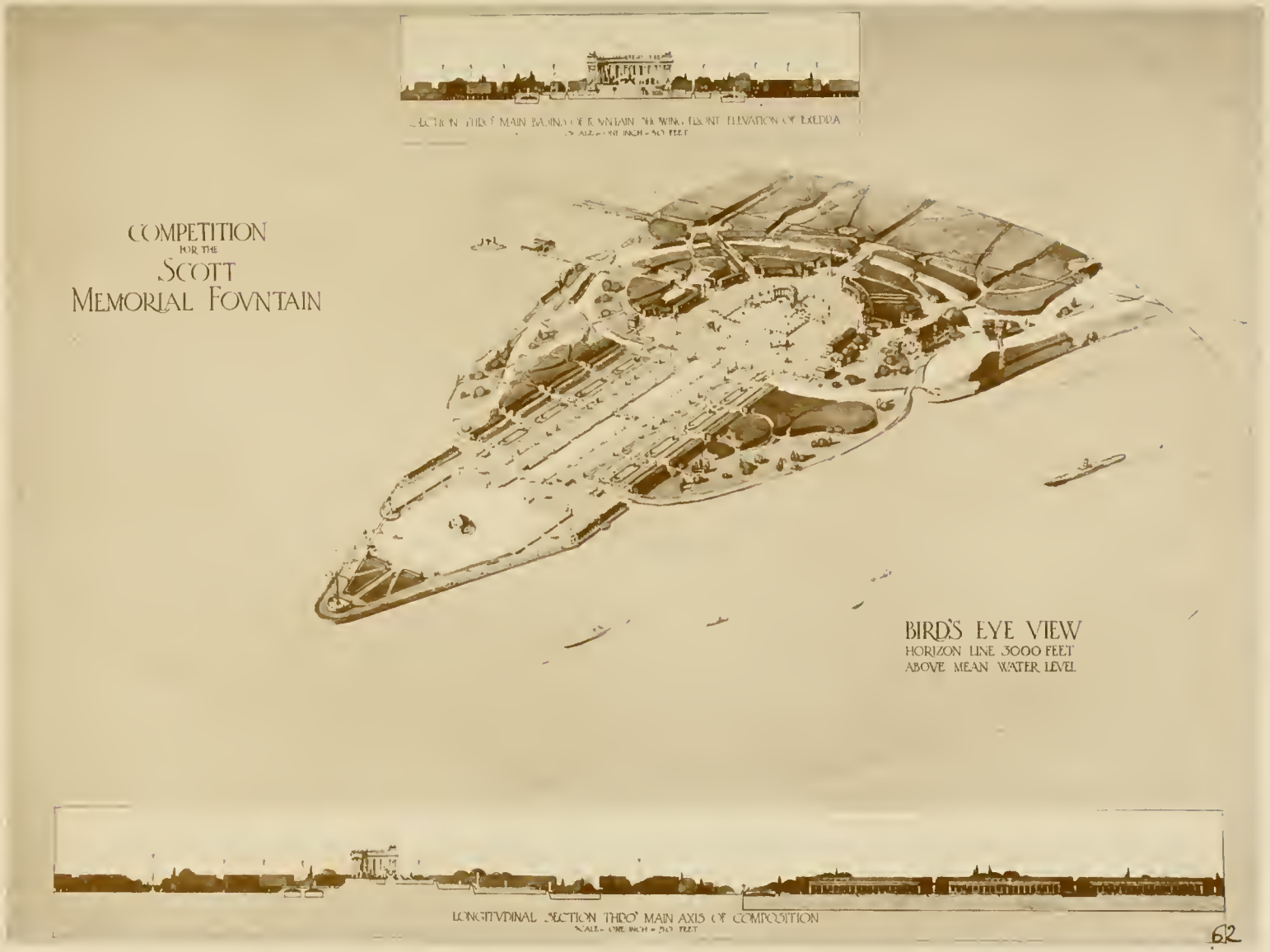
Mellor and Meigs, Architects

84

COMPETITION FOR THE SCOTT MEMORIAL FOUNTAIN

Detroit, Michigan

ROBERT R. McGOODWIN, ARCHITECT



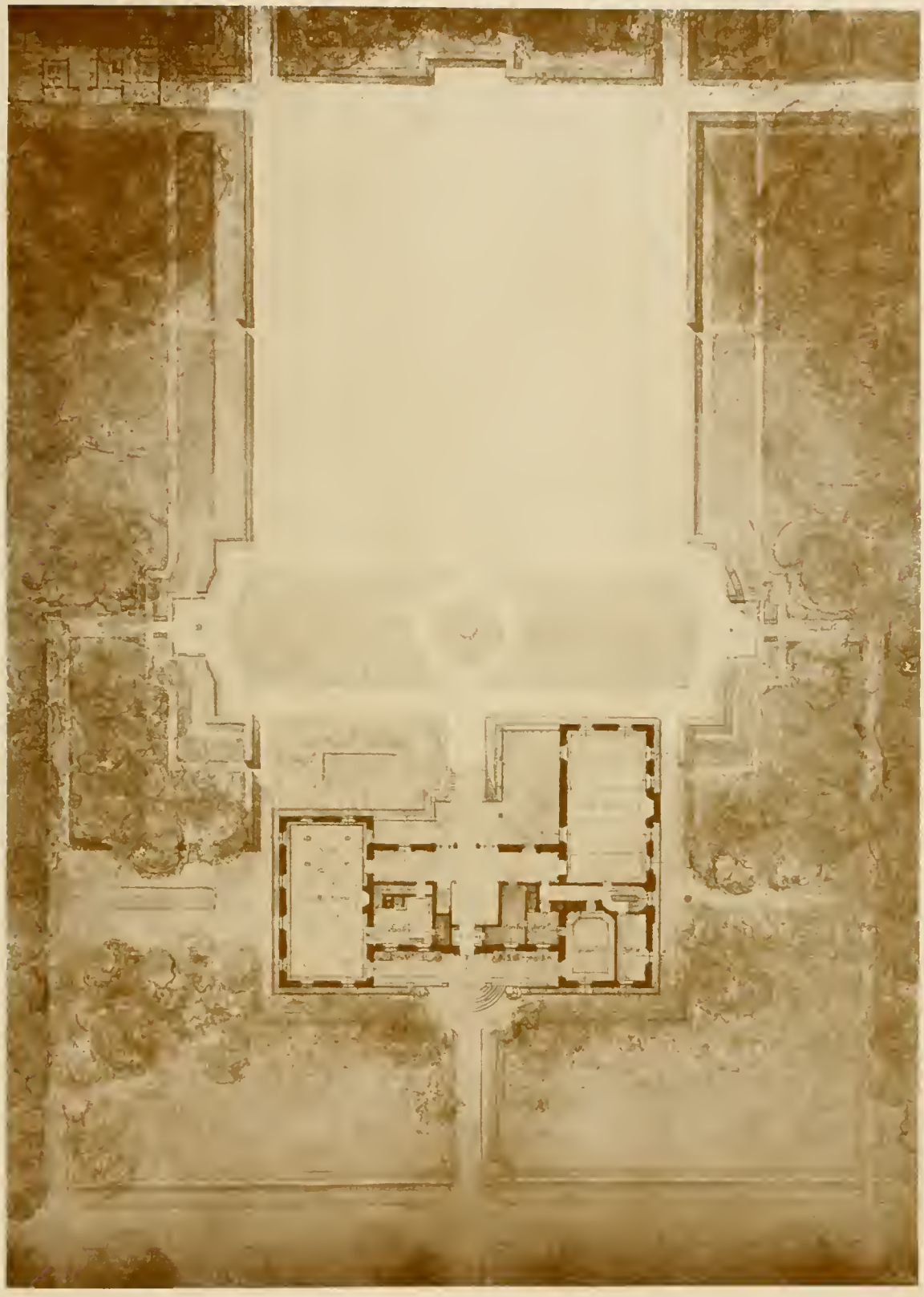
COMPETITION FOR THE SCOTT MEMORIAL FOUNTAIN

Detroit, Michigan

Furness, Evans & Co., Architects

THE PRINCETON CHARTER CLUB, PRINCETON, N. J.

Mellor and Meigs, Architects



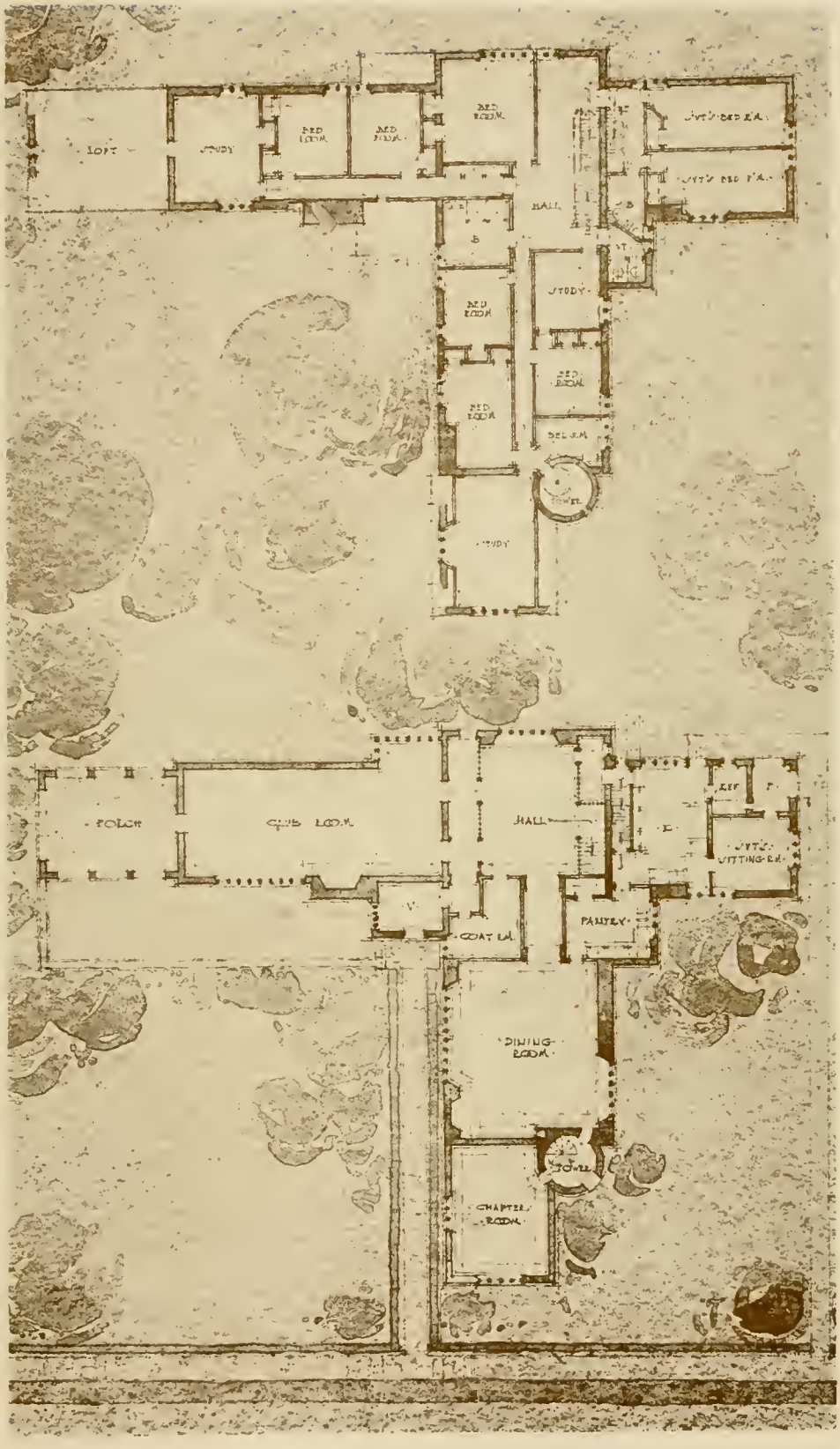
THE PRINCETON CHARTER CLUB

Princeton, N. J.

Mellor and Meigs, Architects

PHI GAMMA DELTA FRATERNITY, STATE COLLEGE, PA.

Mellor and Meigs, Architects



Plans

PHI GAMMA DELTA FRATERNITY

State College, Pa.

MELLOR AND MEIGS, ARCHITECTS

South Elevation

THE CLEEMANN DORMITORY, UNIVERSITY OF PENNSYLVANIA

Stewardson and Page, Architects

North Elevation

THE CLEEMANN DORMITORY, UNIVERSITY OF PENNSYLVANIA

STEWARDSON AND PAGE, ARCHITECTS

Main Entrance Tower

THE THOMAS W. EVANS MUSEUM AND DENTAL INSTITUTE
SCHOOL OF DENTISTRY, UNIVERSITY OF PENNSYLVANIA

JOHN T. WINDRIM, ARCHITECT

Spruce Street Elevation

THE THOMAS W. EVANS MUSEUM AND DENTAL INSTITUTE
SCHOOL OF DENTISTRY, UNIVERSITY OF PENNSYLVANIA

JOHN T. WINDRIM, ARCHITECT

Fortieth Street Elevation

THE THOMAS W. EVANS MUSEUM AND DENTAL INSTITUTE
SCHOOL OF DENTISTRY, UNIVERSITY OF PENNSYLVANIA

JOHN T. WINDRIM, ARCHITECT

HAVERFORD COLLEGE INFIRMARY

Haverford, Pa.

Baily and Bassett, Architects

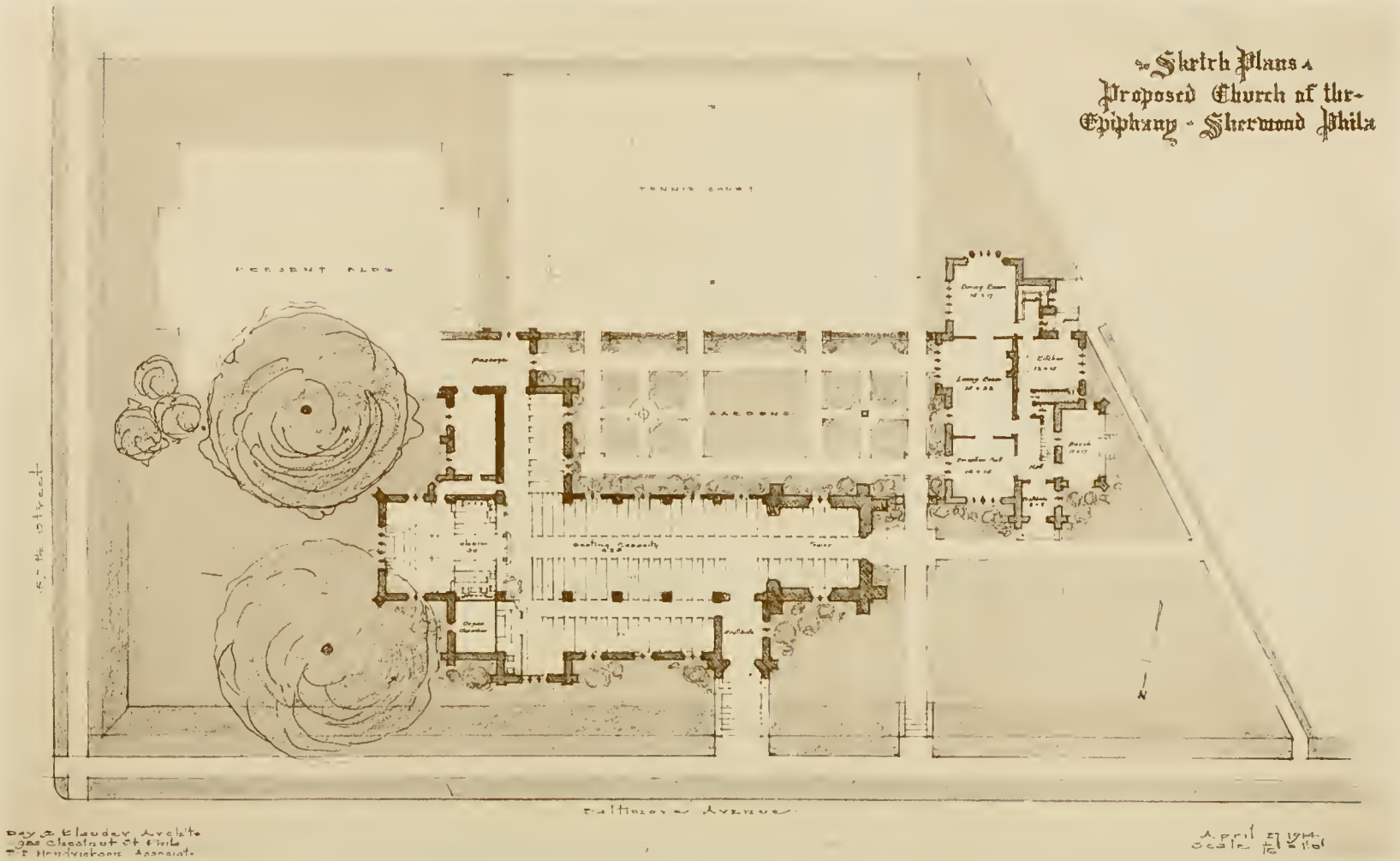
DETAIL OF DINING HALL, PRINCETON UNIVERSITY

DAY AND KLAUDER, ARCHITECTS

BETHANY REFORMED CHURCH

Ephrata, Pa.

SEEBURGER AND RABENOLD, ASSOCIATE ARCHITECTS



SKETCH PLAN FOR PROPOSED CHURCH OF THE EPIPHANY

Sherwood, Philadelphia

Day and Klauder, Architects. E. E. Hendrickson, Associate

SKETCH FOR PROPOSED CHURCH OF THE EPIPHANY

Sherwood, Philadelphia

Day and Klauder, Architects. E. E. Hendrickson, Associate

THE CHOIR: SAINT MARK'S CHURCH, FRANKFORD

WATSON AND HUCKEL, ARCHITECTS

REREDOS, SAINT MARK'S CHURCH, FRANKFORD

WATSON AND HUCKEL, ARCHITECTS

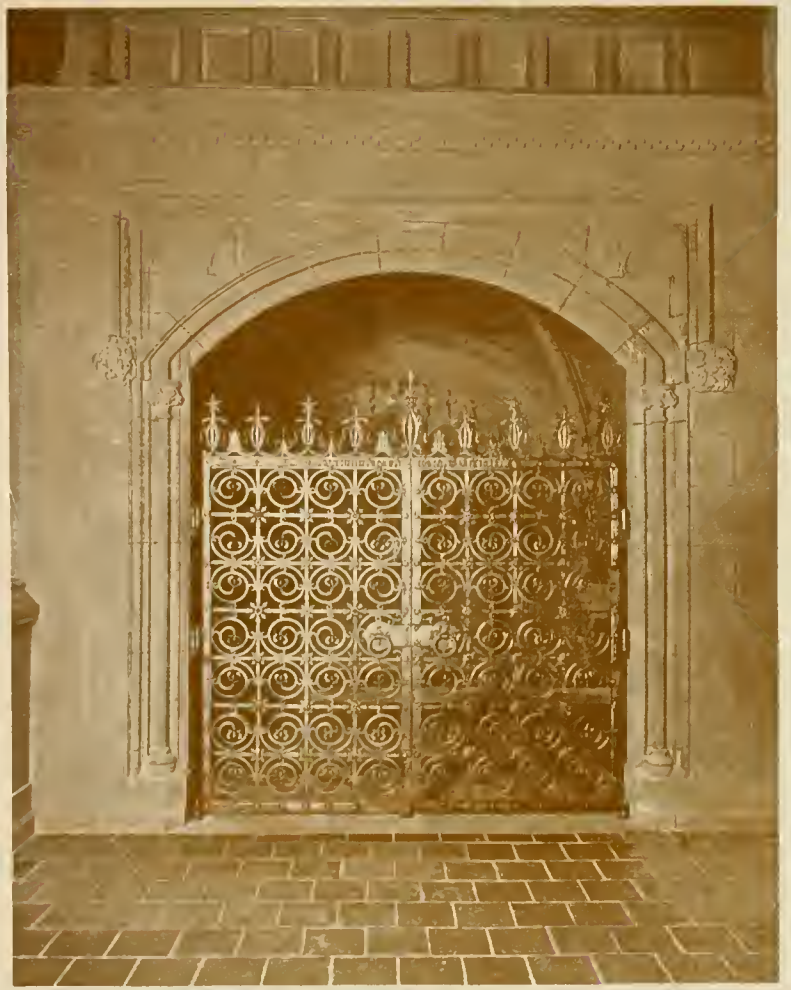
Altar in Lady Chapel

Exterior of Choir Sacristy

ST. CLEMENT'S CHURCH, PHILADELPHIA

HORACE WELLS SELLERS, ARCHITECT

Ironwork Executed by Samuel Yellin



Exterior of Lady Chapel, Entrance from Nave

Interior of Lady Chapel, Doorway to Choir

ST. CLEMENT'S CHURCH, PHILADELPHIA

HORACE WELLS SELLERS, ARCHITECT

Ironwork Executed by Samuel Yellin

ST. CLEMENT'S CHURCH, PHILADELPHIA

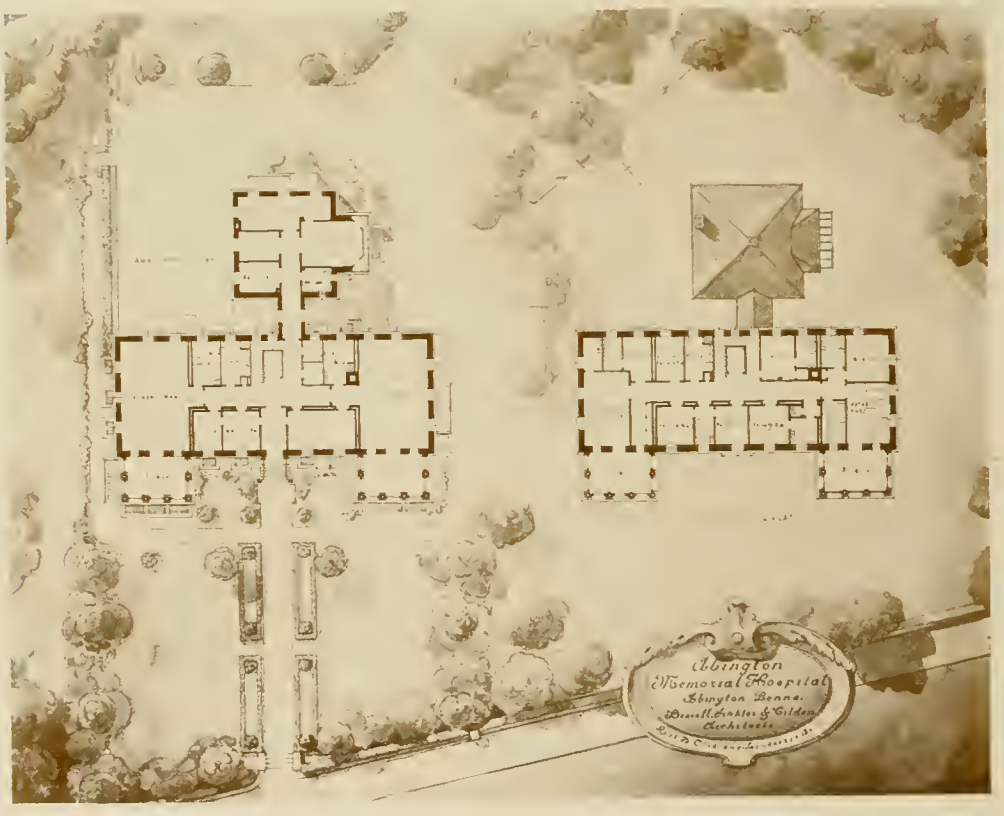
Southwest View Toward Lady Chapel, Showing Choir Extension and New Organ

HORACE WELLS SELLERS, ARCHITECT

CHRIST CHURCH, NORFOLK, VA.

WATSON AND HUCKEL, ARCHITECTS

Front Elevation



Plans

ABINGTON MEMORIAL HOSPITAL

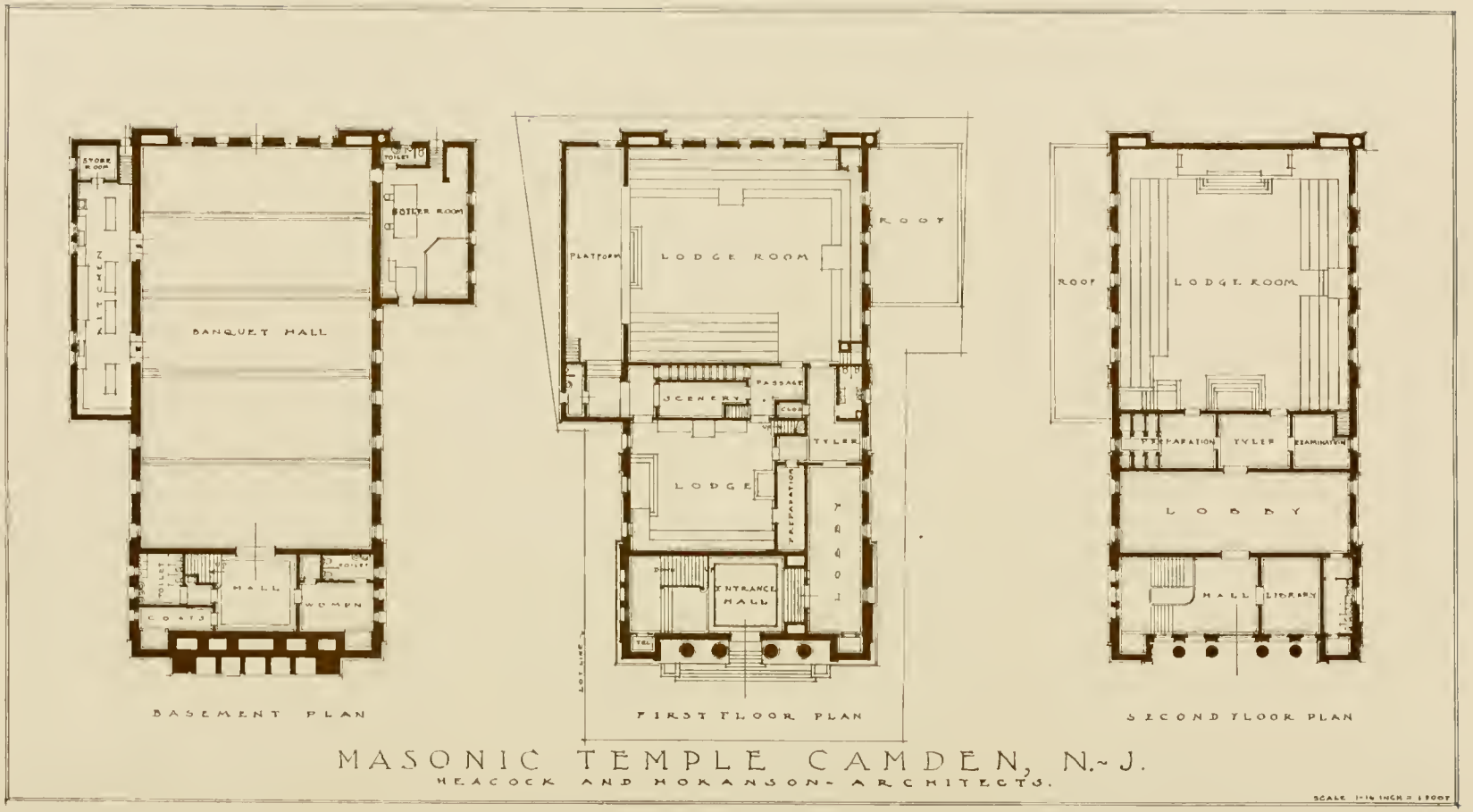
Abington, Pa.

Bissell, Sinkler and Tilden, Architects

ABINGTON MEMORIAL HOSPITAL

Abington, Pa.

BISSELL, SINKLER AND TILDEN, ARCHITECTS



Plans

MASONIC TEMPLE, CAMDEN, N. J.

Heacock and Hokanson, Architects

MASONIC TEMPLE, CAMDEN, N. J.

HEACOCK AND HOKANSON, ARCHITECTS

MEMORIAL ARCH AT VALLEY FORGE, PA.

PAUL P. CRET, ARCHITECT

MEMORIAL ARCH AT VALLEY FORGE, PENNA.

Paul P. Cret, Architect

MONUMENT TO FRANCIS DANIEL PASTORIUS

Vernon Park, Germantown, Philadelphia

ALBERT JAEGERS, SCULPTOR

HENRY BACON, ARCHITECT

"BENJAMIN FRANKLIN, THE YOUTH"

Statue Erected in Front of the Gymnasium, University of Pennsylvania

R. Tait McKenzie, Sculptor

Paul P. Cret, Architect

STUDIO BUILDING FOR THE WILLET STAINED GLASS CO. AT ST. MARTINS, PHILADELPHIA

DUHRING, OKIE AND ZIEGLER, ARCHITECTS

Fore-Court

Terrace Outside Living Room

STUDIO BUILDING FOR THE WILLET STAINED GLASS CO.
AT ST. MARTINS, PHILADELPHIA

DUHRING, OKIE AND ZIEGLER, ARCHITECTS

THE PARKWAY CENTRAL OFFICE BUILDING
BELL TELEPHONE COMPANY OF PENNA.

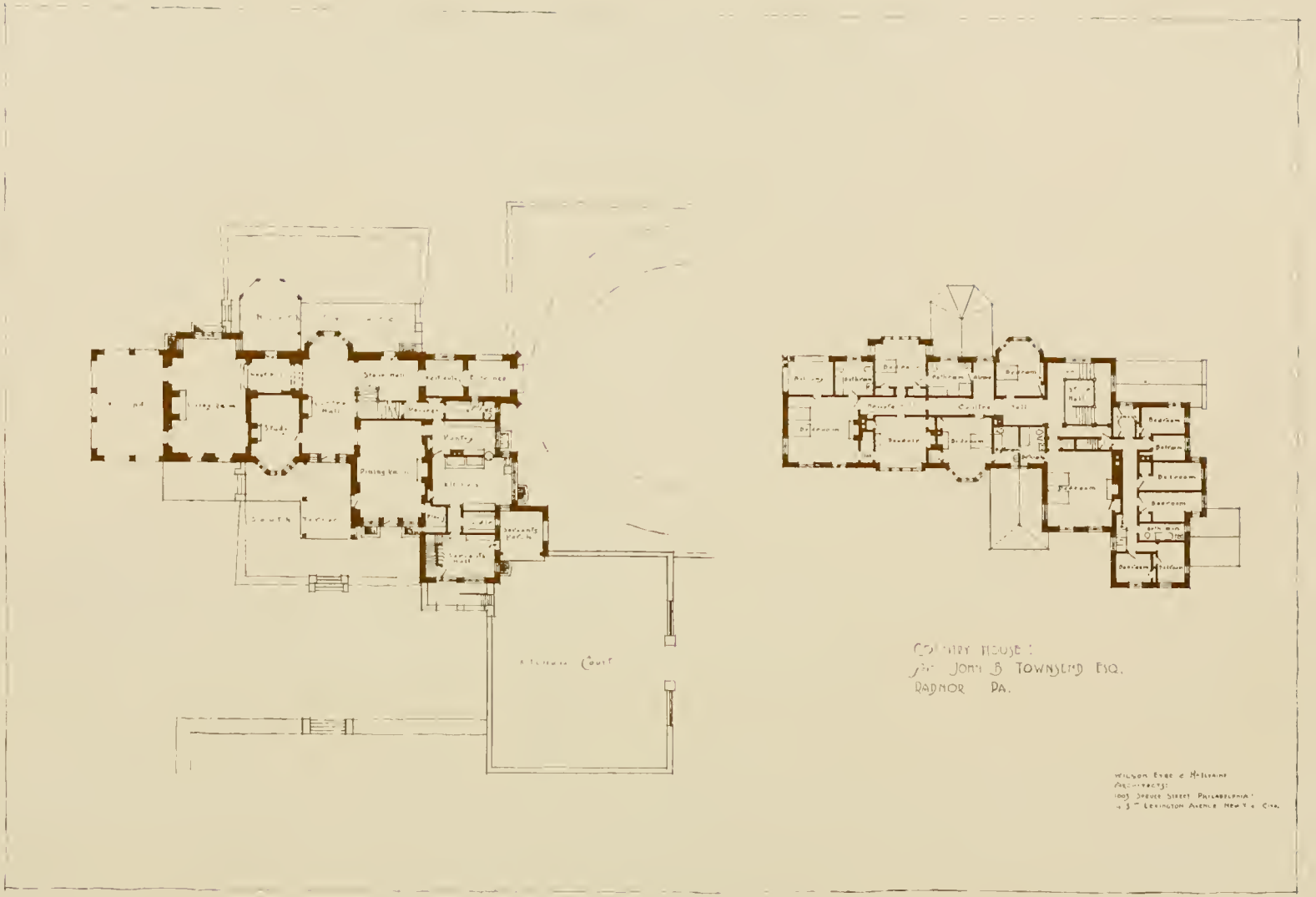
JOHN T. WINDRIM, ARCHITECT

DOMESTIC AND LANDSCAPE ARCHITECTURE

HOUSE FOR C. W. MORRIS, ESQ.

Haverford, Pa.

MELLOR AND MEIGS, ARCHITECTS



Plans

COUNTRY HOUSE FOR JOHN B. TOWNSEND, ESQ.

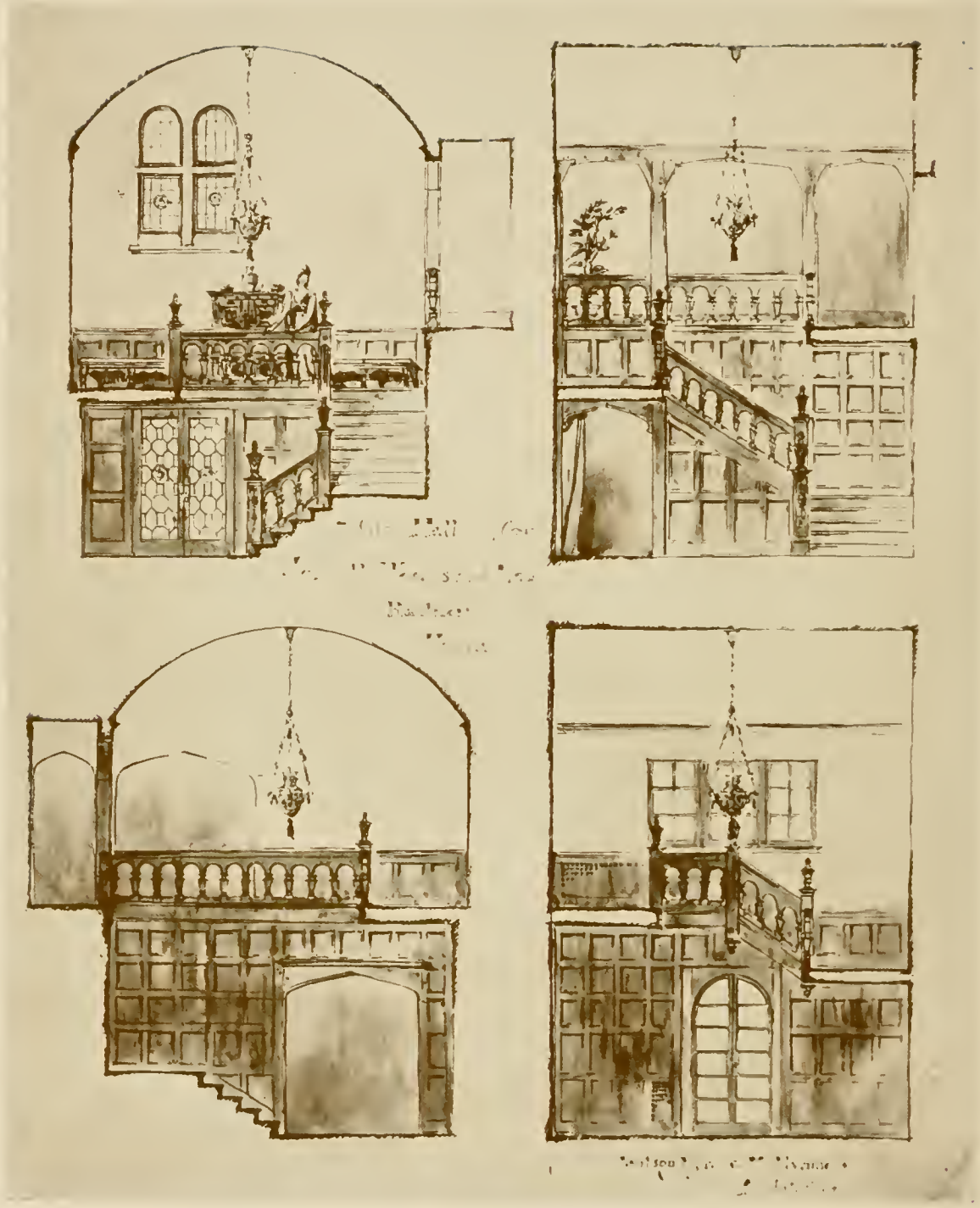
Radnor, Pa.

WILSON EYRE AND McILVAINE, ARCHITECTS

COUNTRY HOUSE FOR JOHN B. TOWNSEND, ESQ.

Radnor, Pa.

WILSON EYRE AND MCILVAINE, ARCHITECTS



Stair Hall

COUNTRY HOUSE FOR JOHN B. TOWNSEND, ESQ.

Radnor, Pa.

WILSON EYRE AND MCILVAINE, ARCHITECTS

SKETCH FOR A HOUSE AT ST. MARTINS, PHILADELPHIA

ROBERT R. MCGOODWIN, ARCHITECT

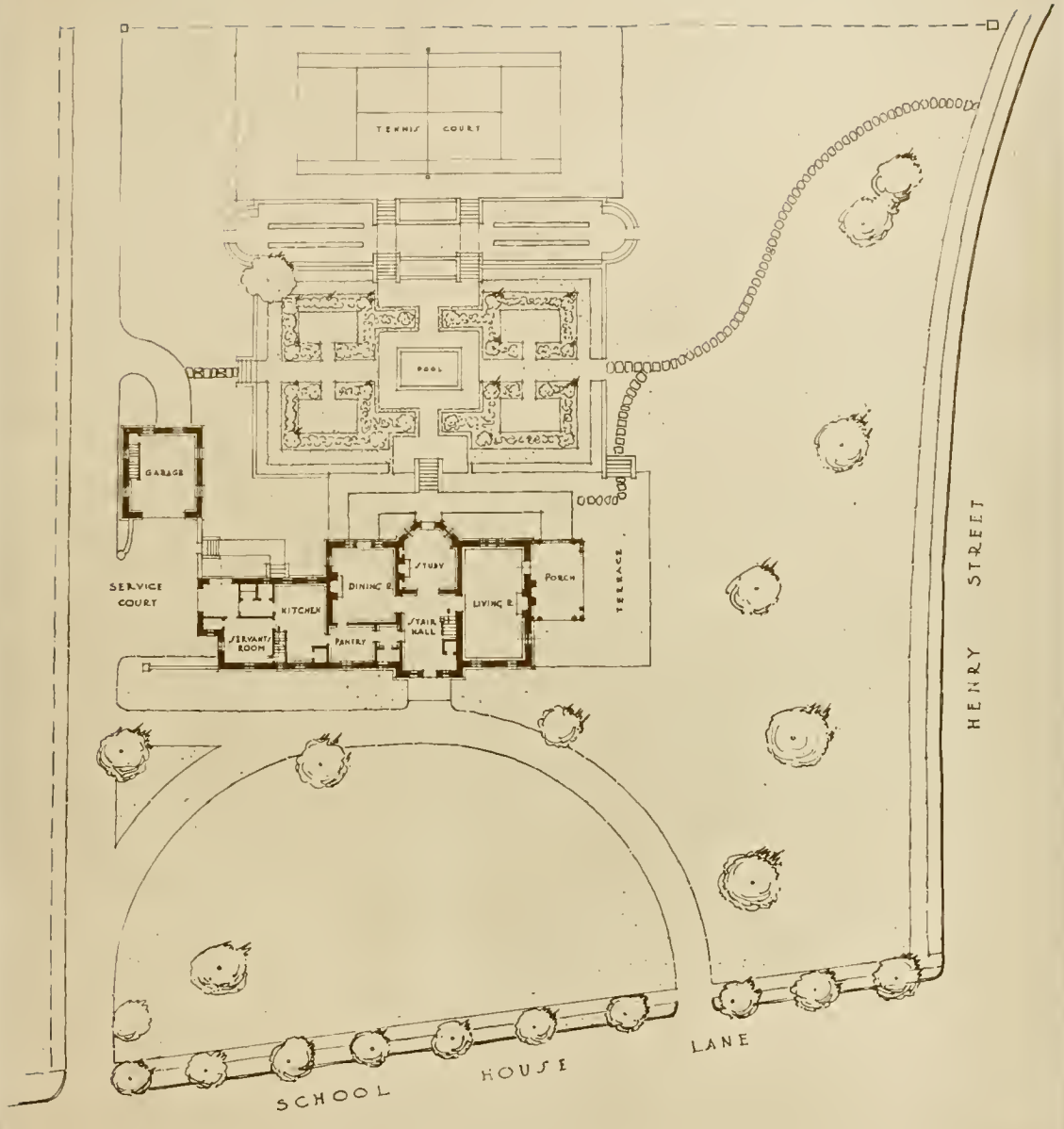
GARDEN ELEVATION

SCHOOL LANE ELEVATION

HOUSE FOR DANIEL H. CARSTAIRS, ESQ.

Germantown, Philadelphia

Brockie and Hastings, Architects



Plan

HOUSE FOR DANIEL H. CARSTAIRS, ESQ.

Germantown, Philadelphia

Brockie and Hastings, Architects

RESIDENCE OF MR. WILLIAM C. SPRUANCE, JR.
Wilmington, Del.
CHARLES BARTON KEEN, ARCHITECT

THE PINE VALLEY GOLF CLUB HOUSE

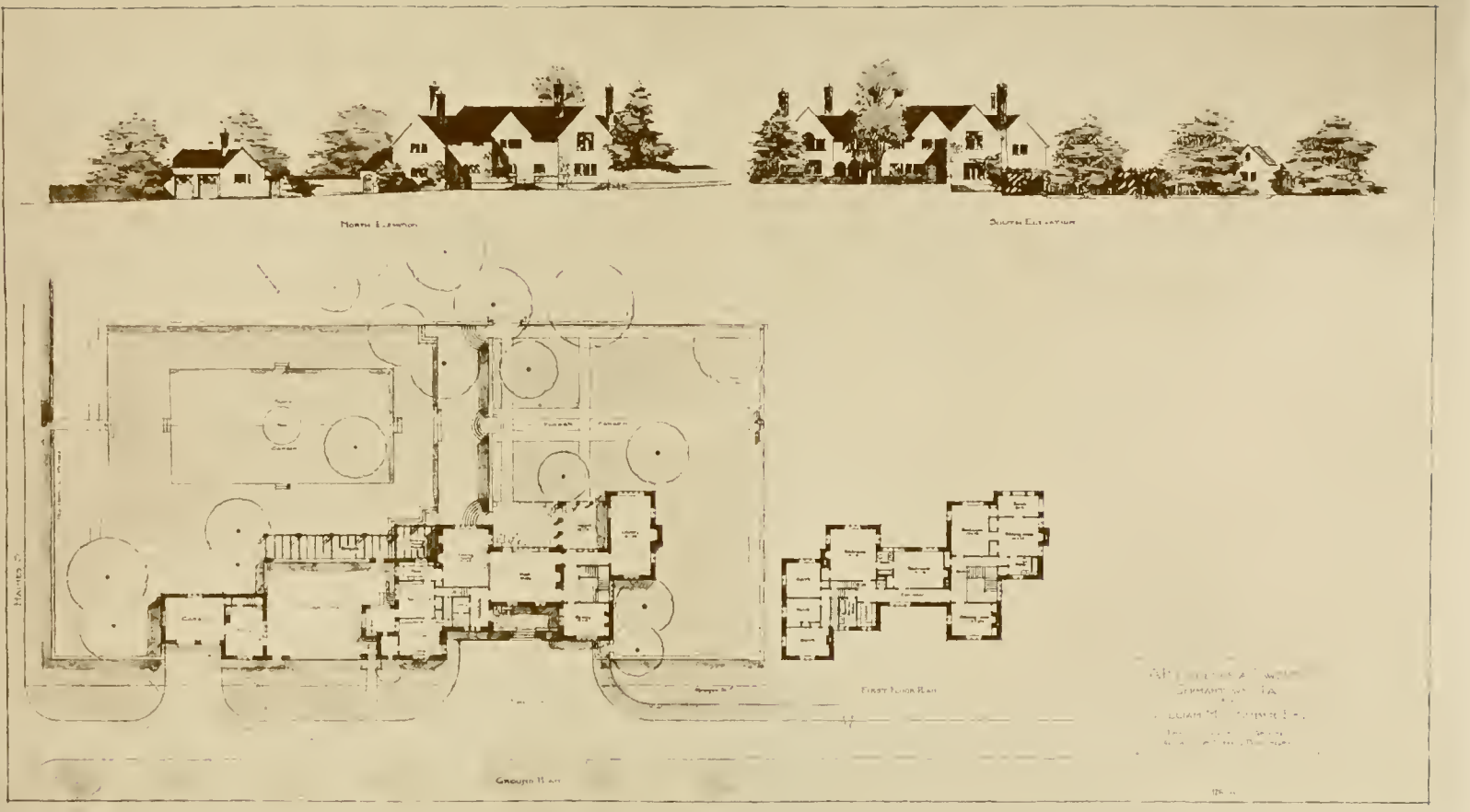
Clementon, N. J.

CHARLES BARTON KEEN, ARCHITECT

HOUSE FOR MR. F. L. DEARMOND

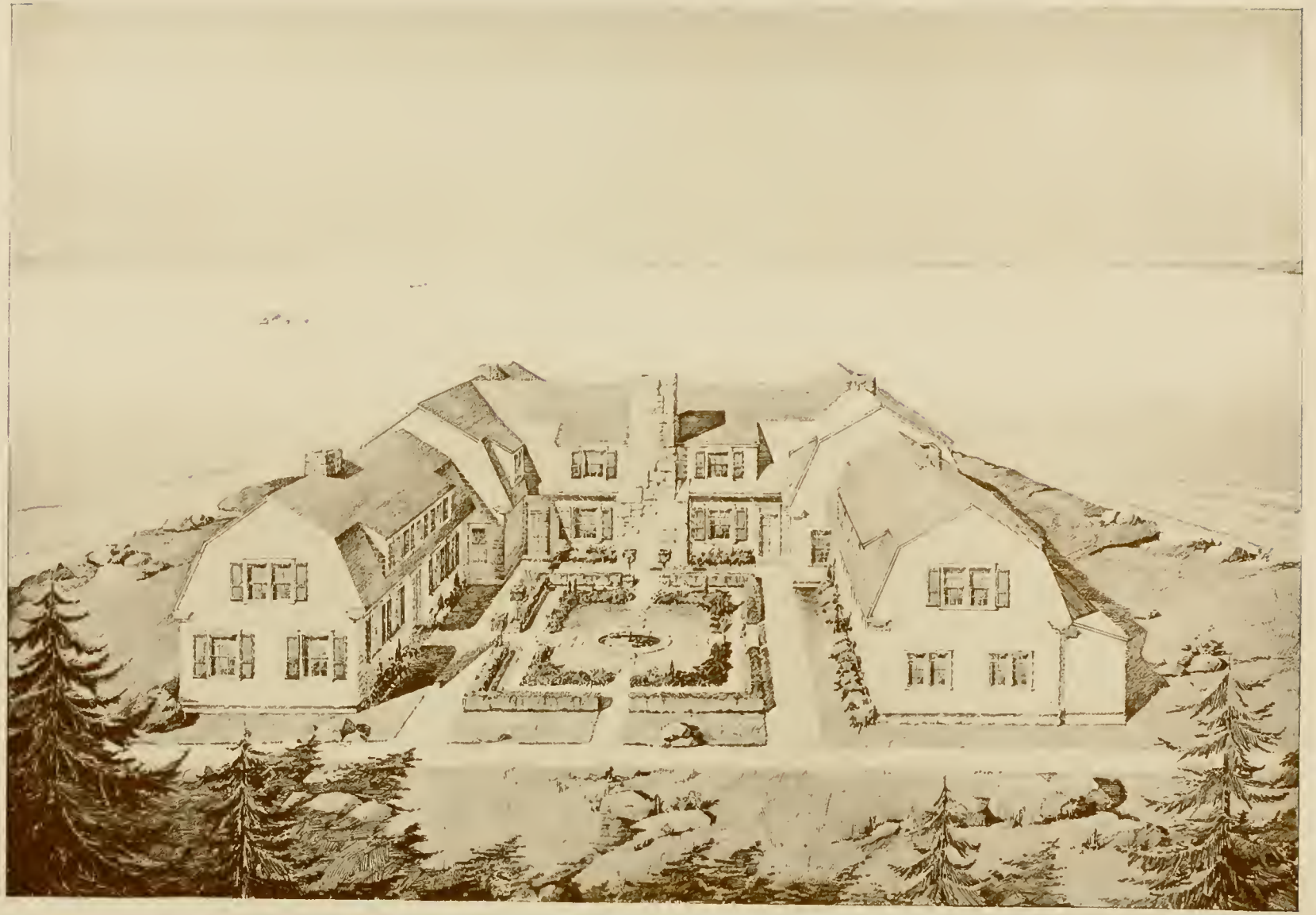
Wilmington, Del.

DEARMOND, ASHMEAD AND BICKLEY, ARCHITECTS



A RESIDENCE AT "AWBURY," GERMANTOWN, PENNA.

EDMUND B. GILCHRIST, ARCHITECT

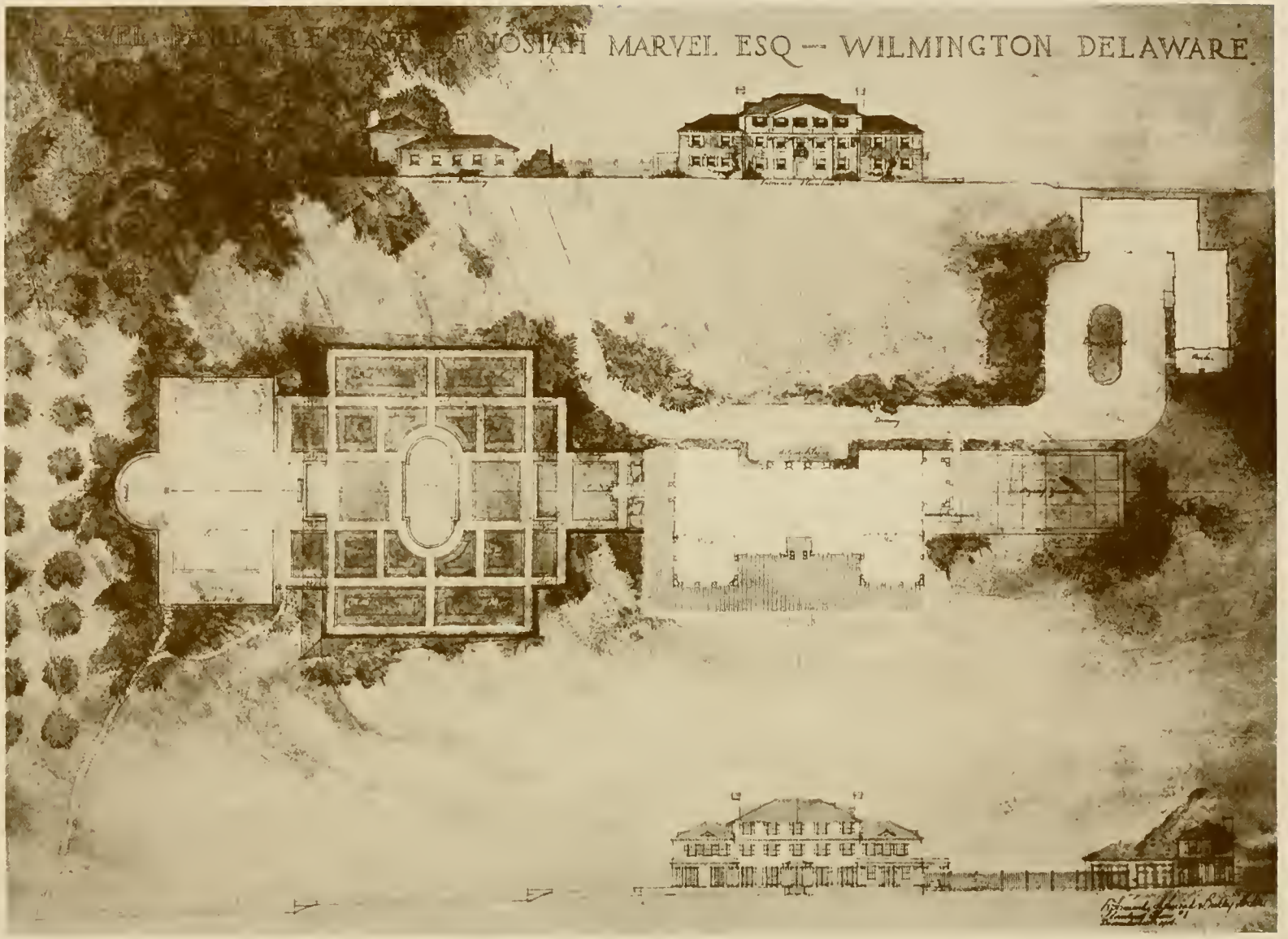


A HOUSE ON HOPE ISLAND, MAINE

BISSELL, SINKLER AND TILDEN, ARCHITECTS

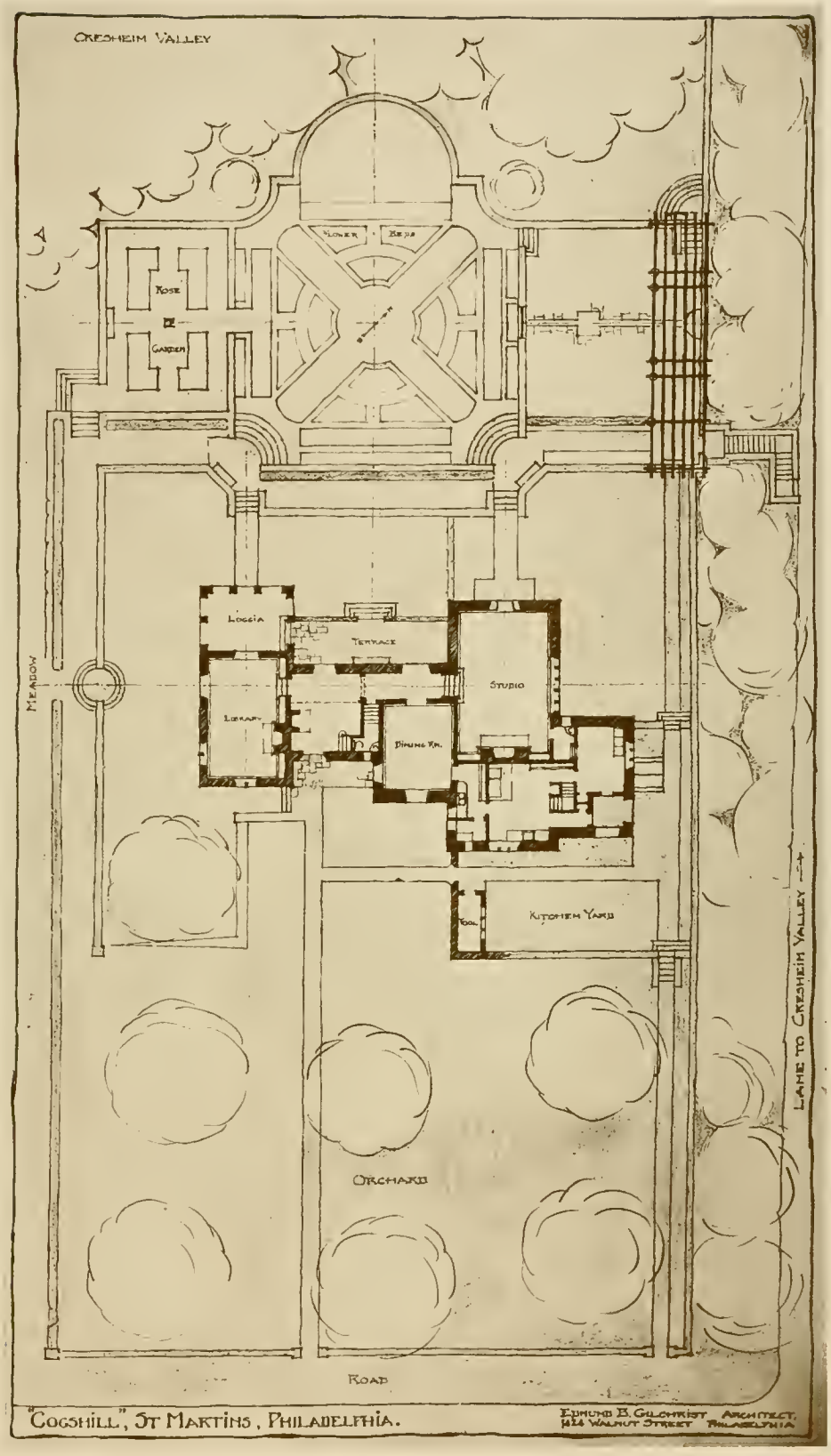
A HOUSE ON HOPE ISLAND, MAINE

BISSELL, SINKLER AND TILDEN, ARCHITECTS



FARM ESTATE, WILMINGTON, DELAWARE

De Armond, Ashmead and Bickley, Architects



Plan

"COGSHILL," ST. MARTINS, PHILADELPHIA

EDMUND B. GILCHRIST, ARCHITECT

The Entrance Front

"COGSHILL," ST. MARTINS, PHILADELPHIA

EDMUND B. GILCHRIST, ARCHITECT

THE STUDIO, "COGSHILL," ST. MARTINS, PHILADELPHIA

EDMUND B. GILCHRIST, ARCHITECT

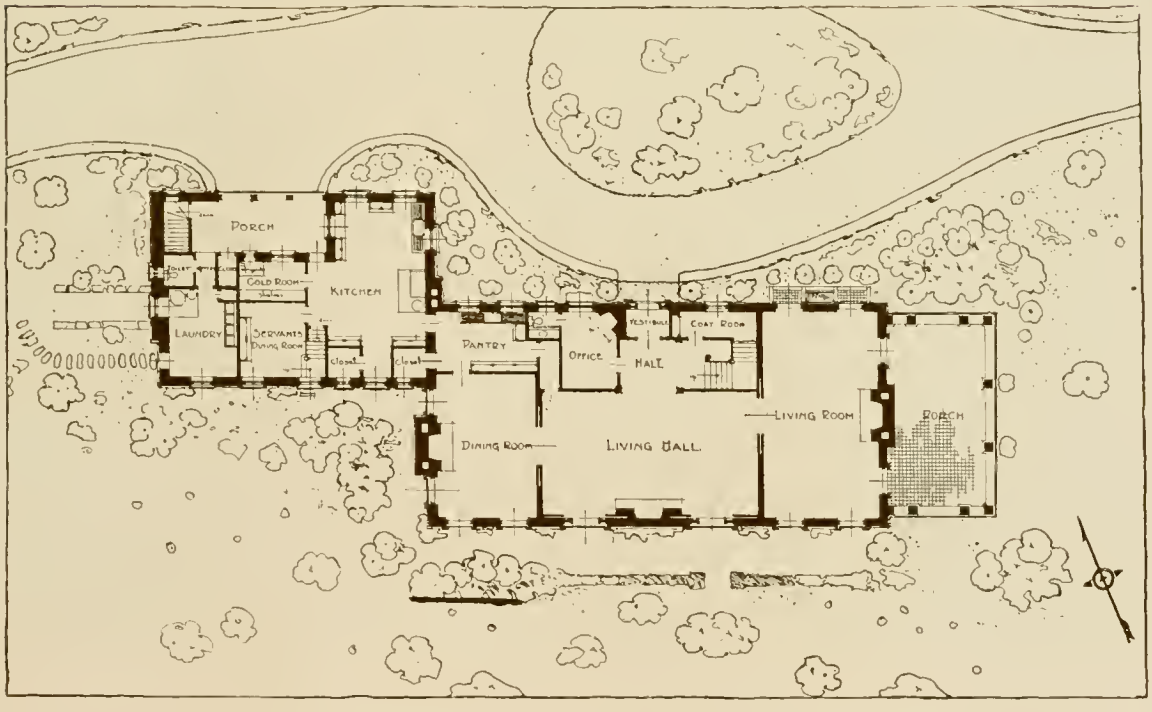
Library

Stair Hall

"COGSHILL," ST. MARTINS, PHILADELPHIA

EDMUND B. GILCHRIST, ARCHITECT

Entrance Front



First Floor Plan

HOUSE FOR H. W. HARRISON, ESQ.

Devon, Pa.

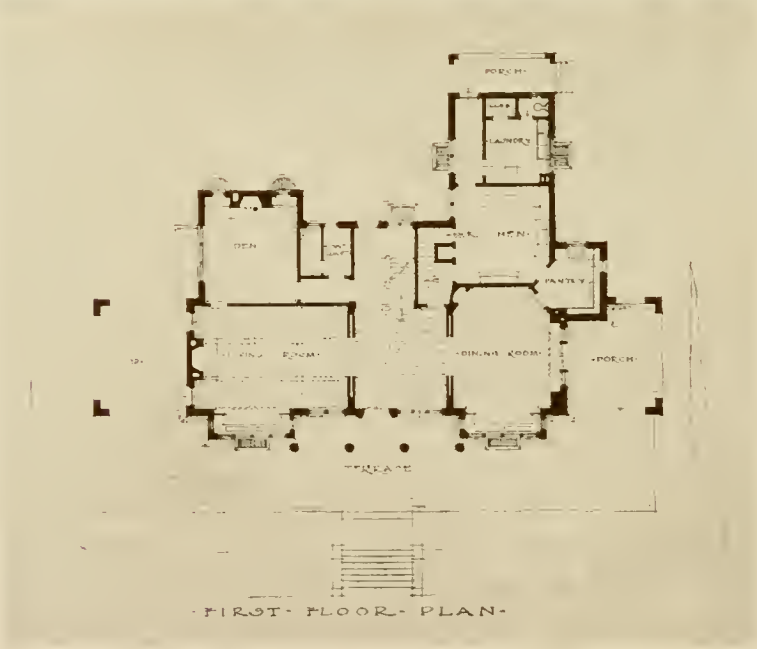
DUHRING, OKIE AND ZIEGLER, ARCHITECTS

HOUSE FOR H. W. HARRISON, ESQ., DEVON, PENNA.

DUHRING, OKIE AND ZIEGLER, ARCHITECTS

HOUSE FOR H. W. HARRISON, ESQ., DEVON, PENNA.

DUHRING, OKIE AND ZIEGLER, ARCHITECTS



HOUSE FOR MR. W. PARK MOORE AT ELKINS PARK, PA.

HEACOCK AND HOKANSON, ARCHITECTS

Terrace

HOUSE FOR MR. W. PARK MOORE, AT ELKINS PARK, PA.

HEACOCK AND HOKANSON, ARCHITECTS

THE DEVON GARAGE TEA ROOM, DEVON, PENNA.

DUHRING, OKIE AND ZIEGLER, ARCHITECTS

THE DEVON GARAGE TEA ROOM, DEVON, PENNA.

DUHRING, OKIE AND ZIEGLER, ARCHITECTS

Summer House from Lower Terrace

RESIDENCE OF EDWARD K. ROWLAND, ESQ.

Radnor, Pa.

ZANTZINGER, BORIE AND MEDARY, ARCHITECTS

Upper Terrace

RESIDENCE OF EDWARD K. ROWLAND, ESQ.

Radnor, Pa.

ZANTZINGER, BORIE AND MEDARY, ARCHITECTS

A HOUSE AT RADNOR, PA.

BISSELL, SINKLER AND TILDEN, ARCHITECTS

North Elevation

Wall Garden, South Side

RESIDENCE OF MR. WILLIAM J. McCAHAN, JR.

Moorestown, N. J.

J. Fletcher Street, Architect

Living Porch

HOUSE FOR W. T. HARRIS, ESQ., AT VILLA NOVA, PENNA.

DUBRING, OKIE AND ZIEGLER, ARCHITECTS

Garden Front

North Elevation

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Duhring, Okie and Ziegler, Architects

View from Garden

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GARDEN: REED HOUSE, NEW CASTLE, DEL.

Photograph by Philip B. Wallace

A Semi Detached House

First Prize Design by H. Bartol Register

Second Prize Design by Antonio di Nardo

COMPETITION FOR THE FAÇADE OF A SMALL CITY HOUSE

Third Prize Design by Helen C. Sowden

Fourth Prize Design by W. Pope Barney

COMPETITION FOR THE FAÇADE OF A SMALL CITY HOUSE

Design Submitted by Harold Tatum

Design Submitted by A. C. Howard

COMPETITION FOR THE FACADE OF A SMALL CITY HOUSE

LIBRARY MANTEL

Designed and Modeled by John I. Bright, Architect

SOME OLD COLONIAL IRONWORK

PHOTOGRAPHS BY PHILIP B. WALLACE

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Philadelphia

GATE, BRUTON PARISH CHURCH
Williamsburg, Va.

GATE, BRUTON PARISH CHURCH
Williamsburg, Va.

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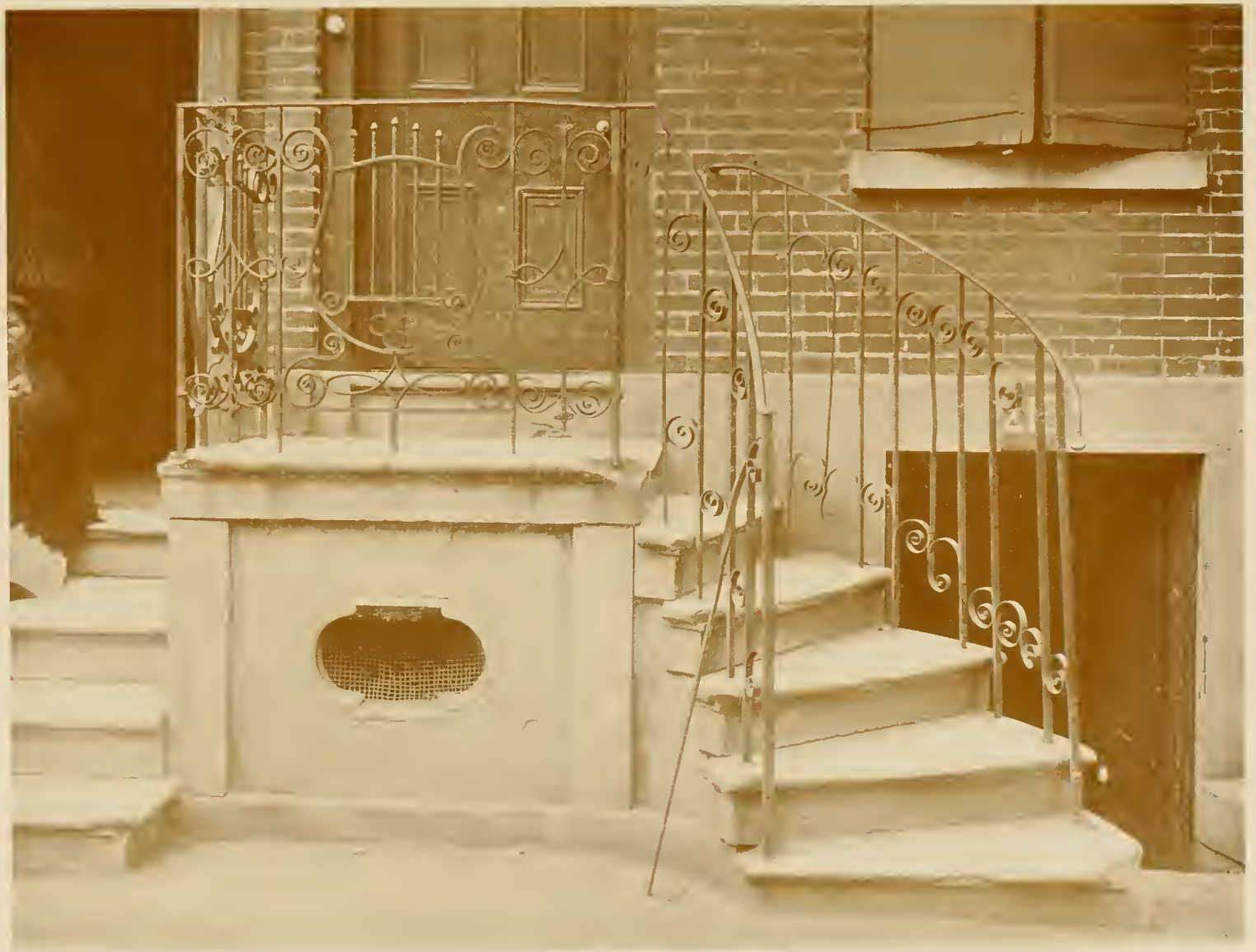

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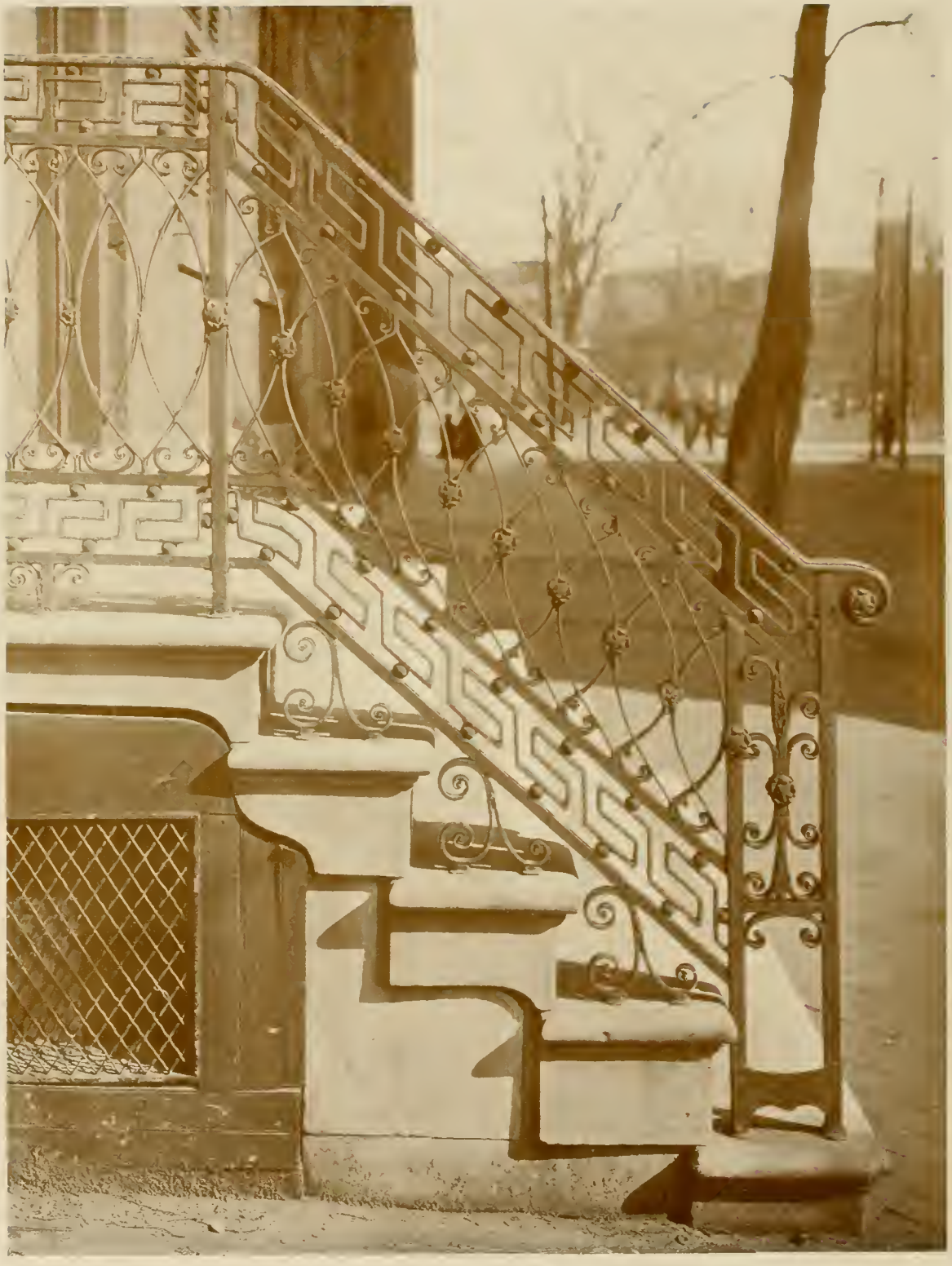

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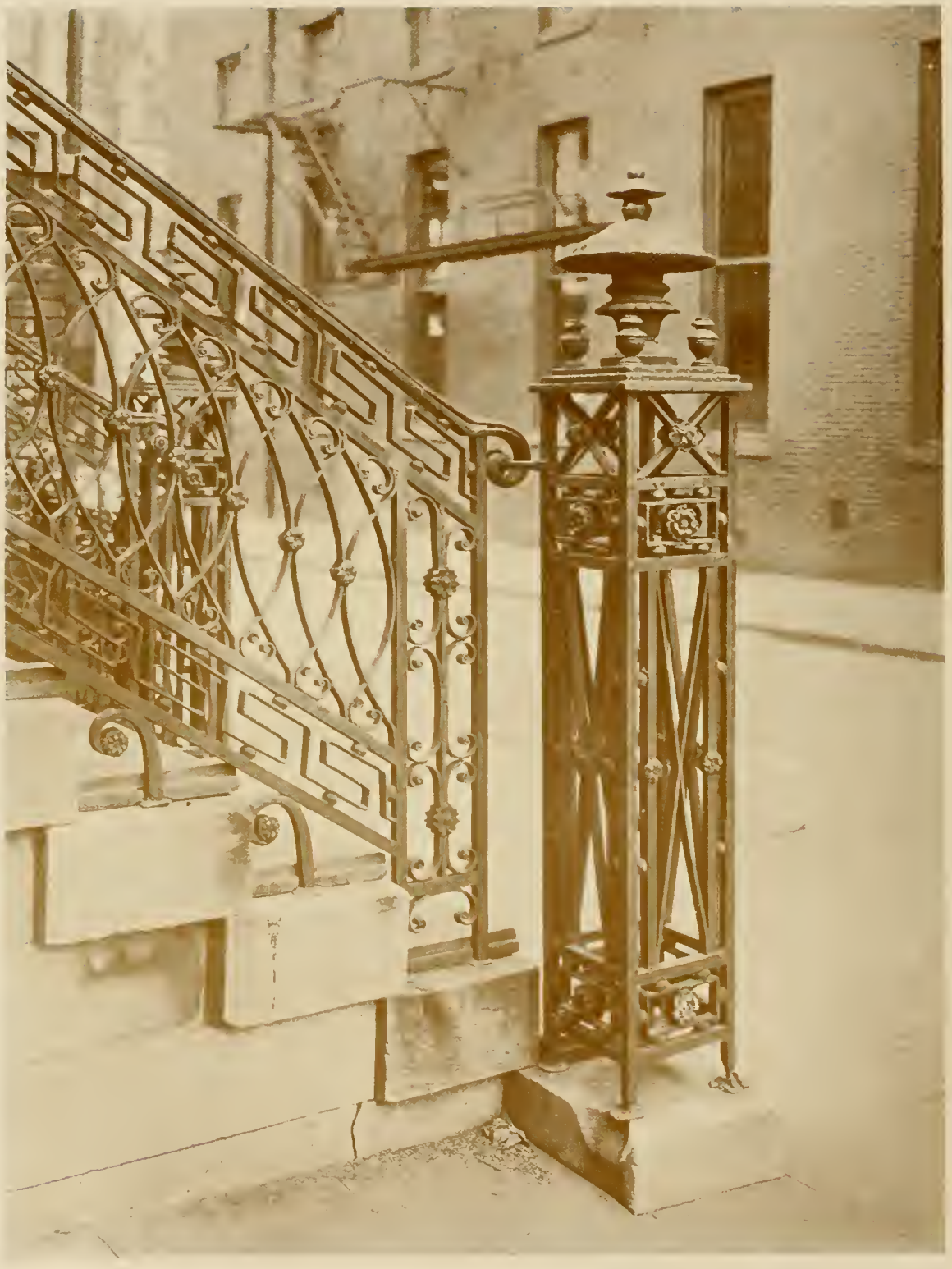

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DOVE-COTE IN A GARDEN

Glen Riddle, Pa.

Duhring and Howe, Landscape Architects

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Some Interesting English Decorations

At a time when Brussels is in the occupation of the Germans, it is interesting to remember that during the last great International Exhibition it was freely stated that the German Government erected buildings of such a substantial type that they must have been built for a special use after the Exhibition closed. It will be remembered that a terrible fire devastated the magnificent exhibit of Great Britain, and amongst work which specially obtained not only the highest award, but a special congratulation of the international juries, was the exhibit of the English and American decorative firm of White Allom & Co., 19 East Fifty-second Street, New York. The head of the firm, Sir Charles Allom, was one of the British International Exhibition's Royal Commissioners, and took a most active part in the reconstruction of the British Section after the fire. This work did much to cement the good feeling of the Belgians and the English. He is now in America completing the interior of the Frick house, with Mr. Thomas Hastings, and part of the Harvard Library, with Mr. Horace Trumbauer.

Three of the illustrations accompanying this article are of the beautiful rooms erected by that firm, which were entirely consumed in the fire. But they are typical examples of the work which has made their firm famous throughout the world. It is remarkable how large is the number of great collectors of art objects by whom they have been employed to make backgrounds for their collections. In these cases special knowledge of where to be ornamental and where retain plain surfaces is necessary. Their association with the architects of many well-known Americans is the result, and in the homes of the following, amongst others, are fine examples of their work: J. P. Morgan, P. A. B. Widener, Henry Clay Frick, George Drexel, Edward E. Stotesbury, Robert L. Montgomery, Percival Roberts, Edwin Gould, George Gould, Harris Fahnestock, Morton Plant, Philip Lehman, and many others. Their work, in association with some of America's greatest architects, has been most successful, and at the moment may be mentioned the Harry Widener Memorial Library, erected by Mrs. George D. Widener, to her son's memory. We have only space to show the Entrance Lobby to the building, the architect of which is Mr. Horace Trumbauer, of Philadelphia.

ENTRANCE LOBBY TO THE WIDENER MEMORIAL LIBRARY, HARVARD UNIVERSITY, BY SIR CHARLES ALLOM AND HORACE TRUMBAUER

This building, as is well known, has been erected by Mrs. George Widener, of Philadelphia, in memory of her son Harry Widener, who died in the Titanic disaster. He was the well-known collector of first editions of authors, and left his great collection to the Harvard University to which has been added the munificent gift of Mrs. Widener of the library building, to house the whole of the University books as well.

The Reception Hall, Staircase, Memorial Hall and Collection Room were designed by Sir Charles Allom, the head of the firm of White Allom & Co., who carried the work out under the architect to the building, Mr. Horace Trumbauer, of Philadelphia.

DINING ROOM, BY SIR CHARLES ALLOM, OF WHITE ALLOM & CO., LONDON AND NEW YORK

Designed and erected by White Allom & Co., of London and New York, at the last Brussels Exhibition. It received the highest award and the unique distinction of the special congratulation of the Juries for its excellence of workmanship and design

WILLIAM AND MARY OAK ROOM, BY SIR CHARLES ALLOM, LONDON AND NEW YORK

A room designed and executed by White Allom & Co., of London and New York, exhibited in the Brussels Exhibition and burnt with the whole of the British section in the great fire which devastated the finest section of the Exhibition.

MANTELPIECE—DINING ROOM AT BRUSSELS, BY SIR CHARLES ALLOM, OF WHITE ALLOM & CO., LONDON AND NEW YORK

From the Brussels Exhibition Dining Room, designed and executed by White Allom & Co., of London and New York.

This type of English decoration is now more sought for than even French work was a few years ago, and great French connoisseurs who visited Brussels said that they had not known that England produced such refined types of workmanship and design until they had seen it demonstrated in the Exhibition.

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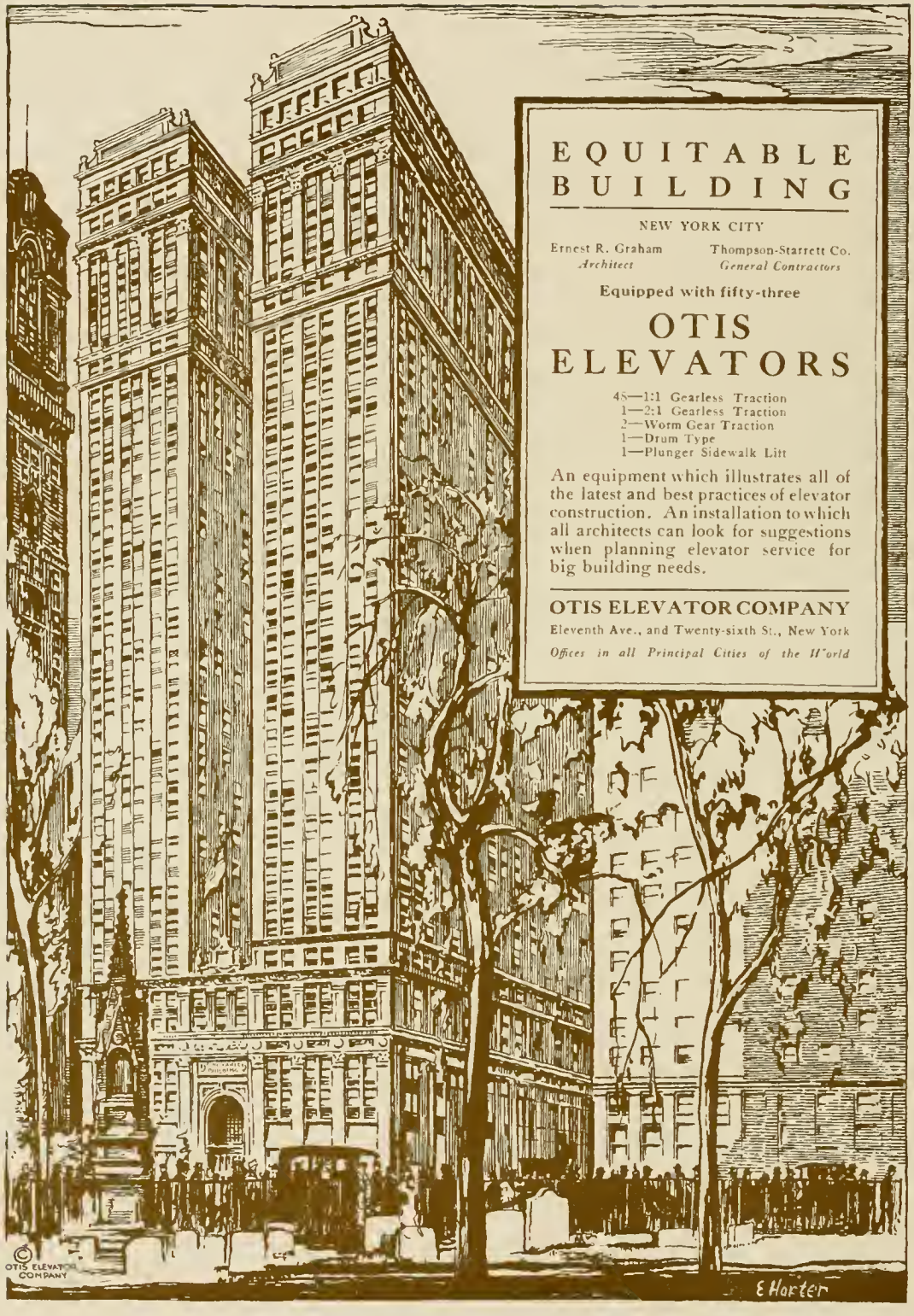
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J. EDGAR WILLING, (with K. M. Murchison) Architect

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NEW HAVEN : : CONN.

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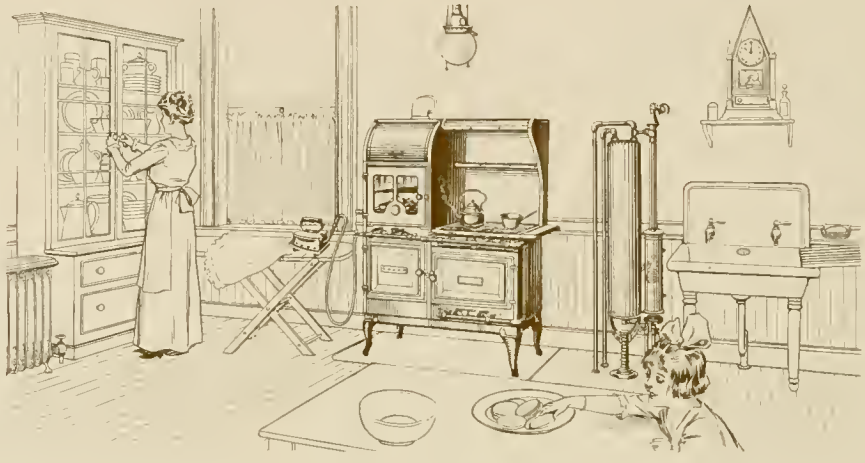

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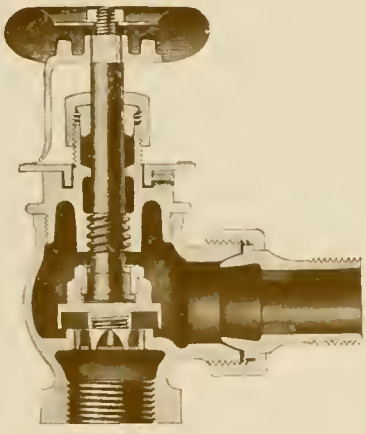

Fig. 300

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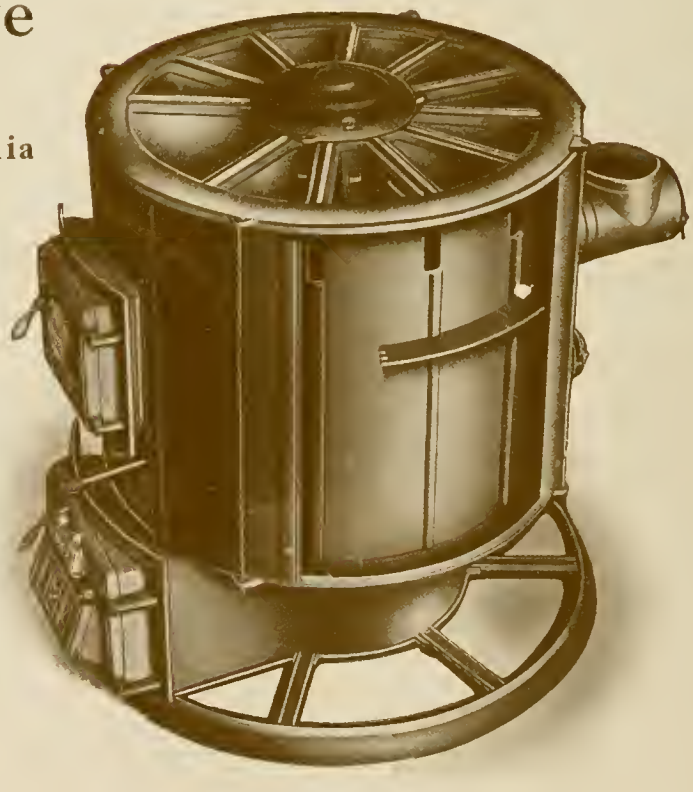

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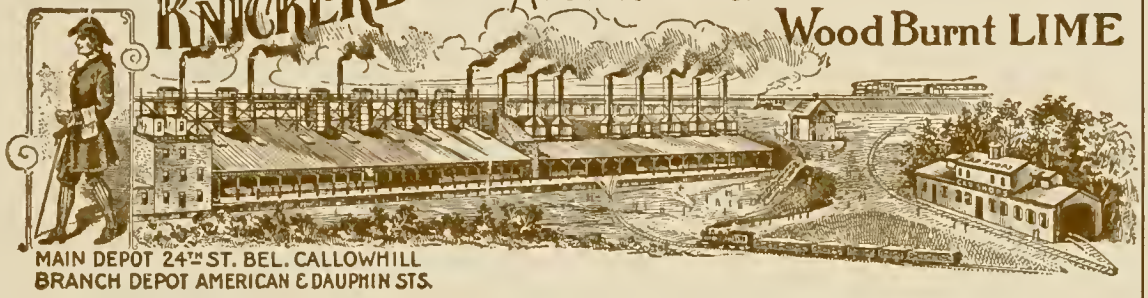

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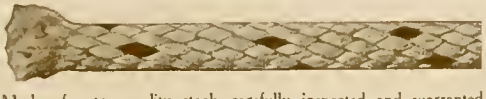

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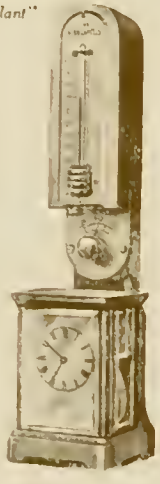

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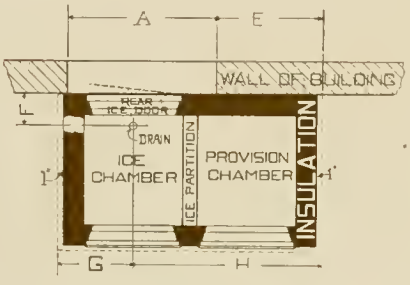

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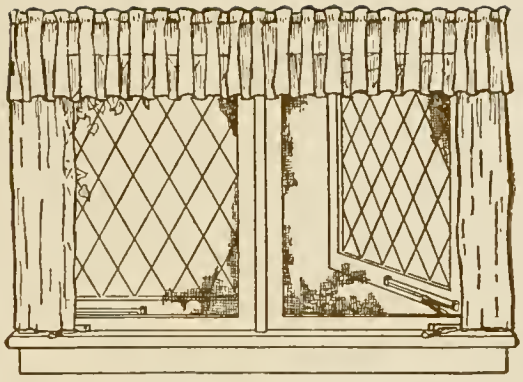

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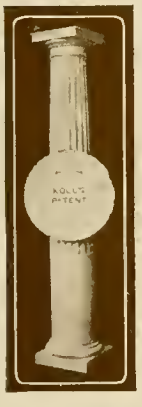

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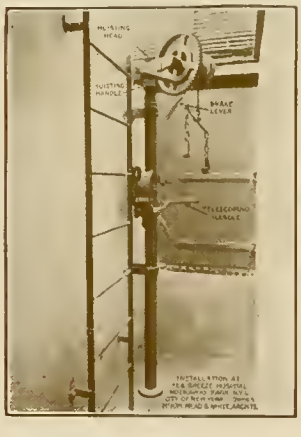

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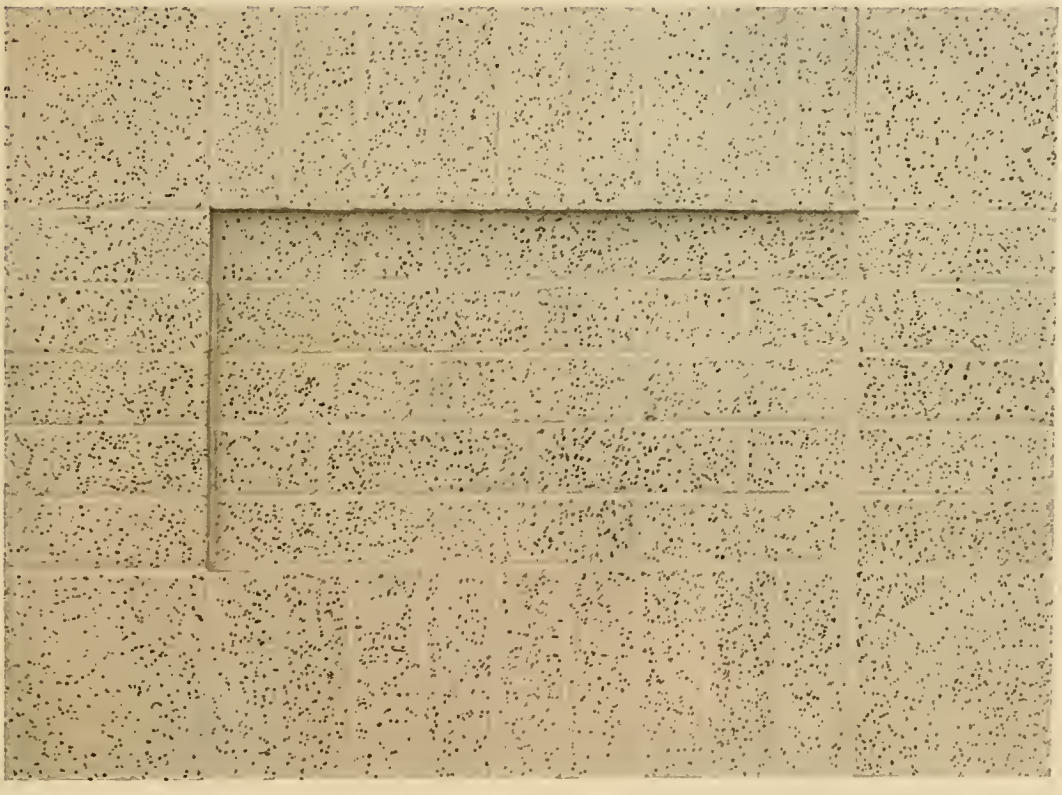

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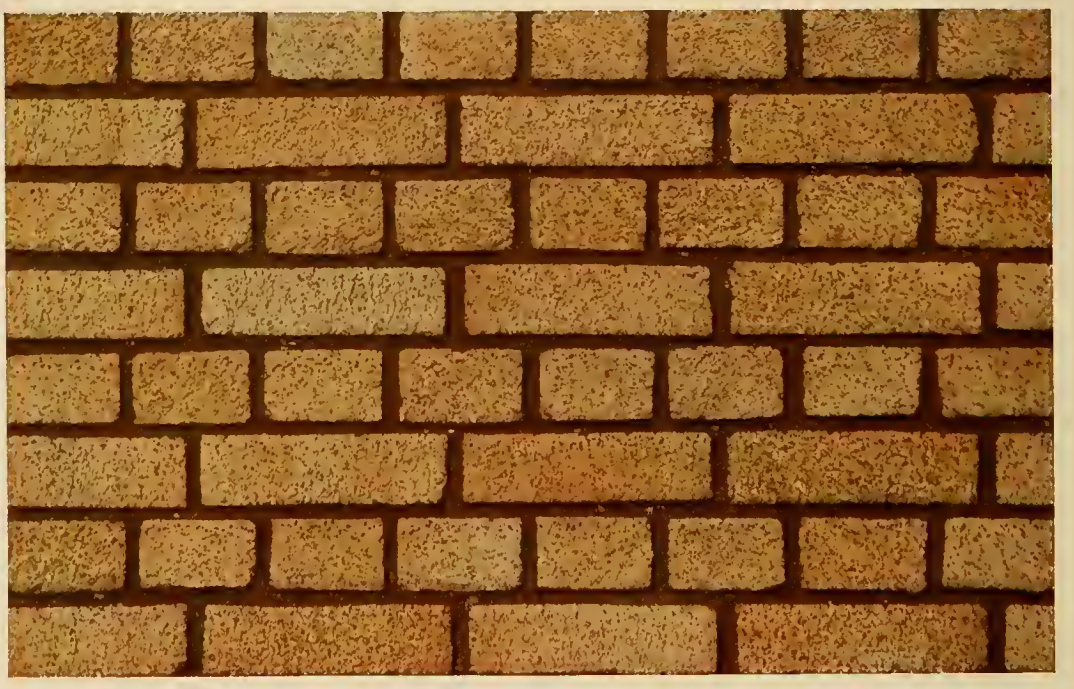

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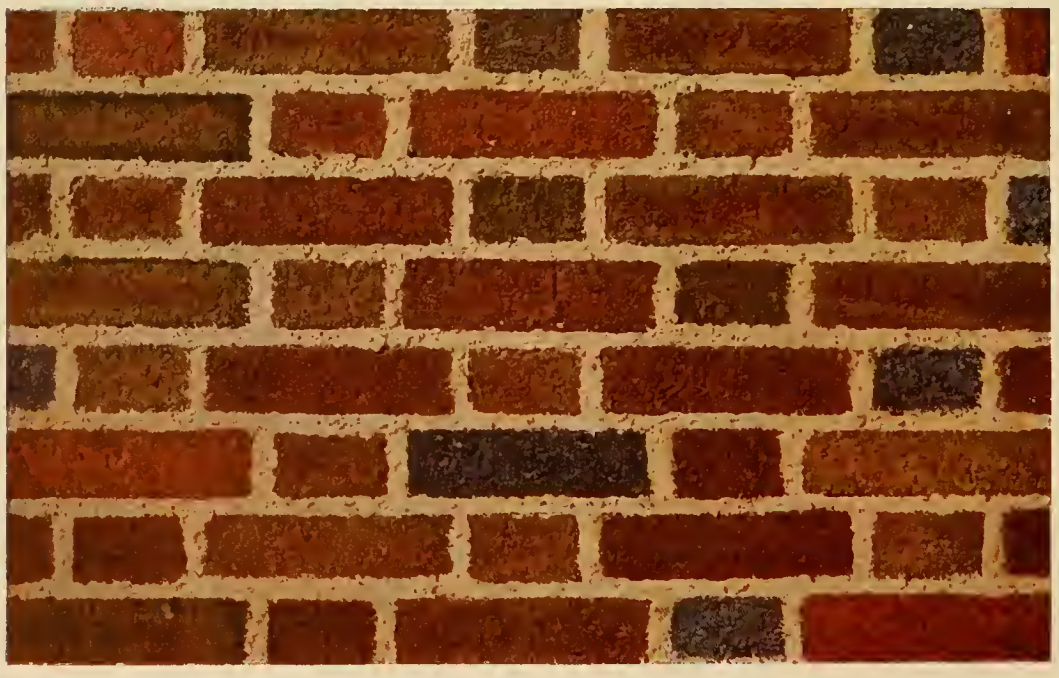

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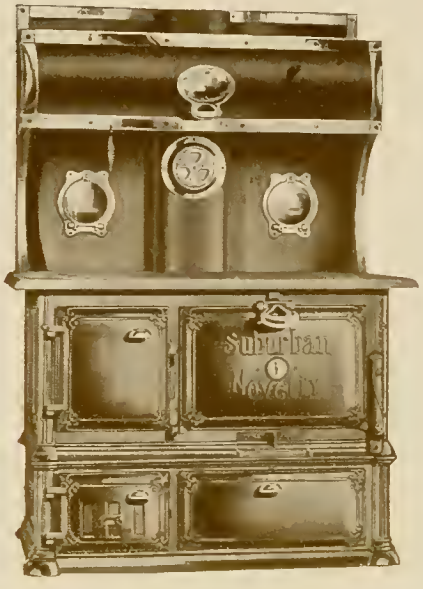

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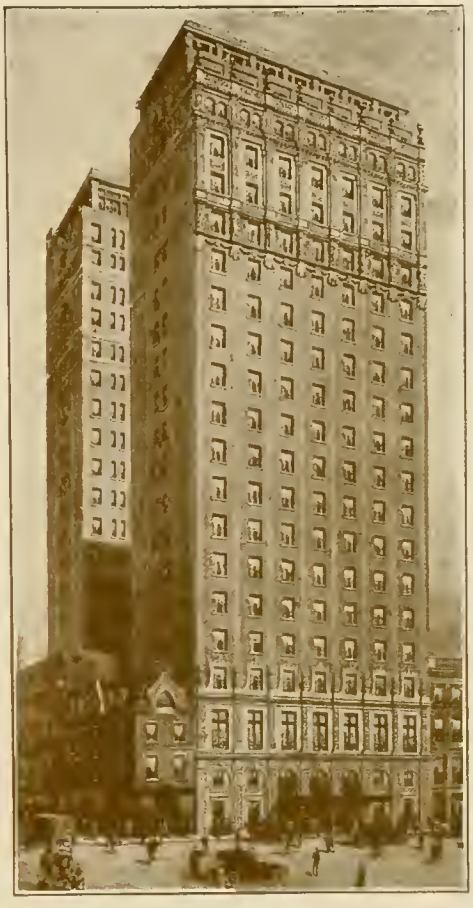

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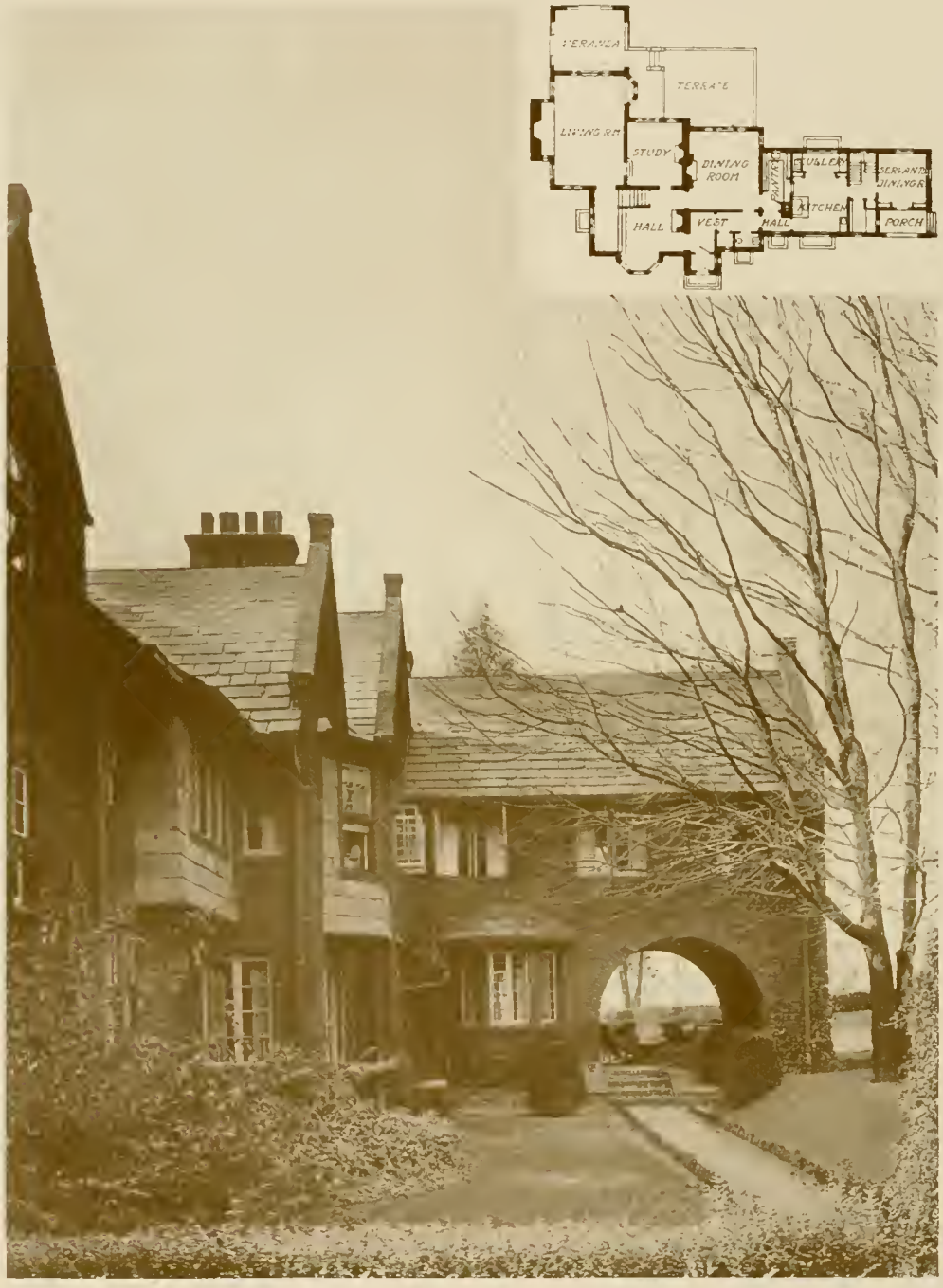

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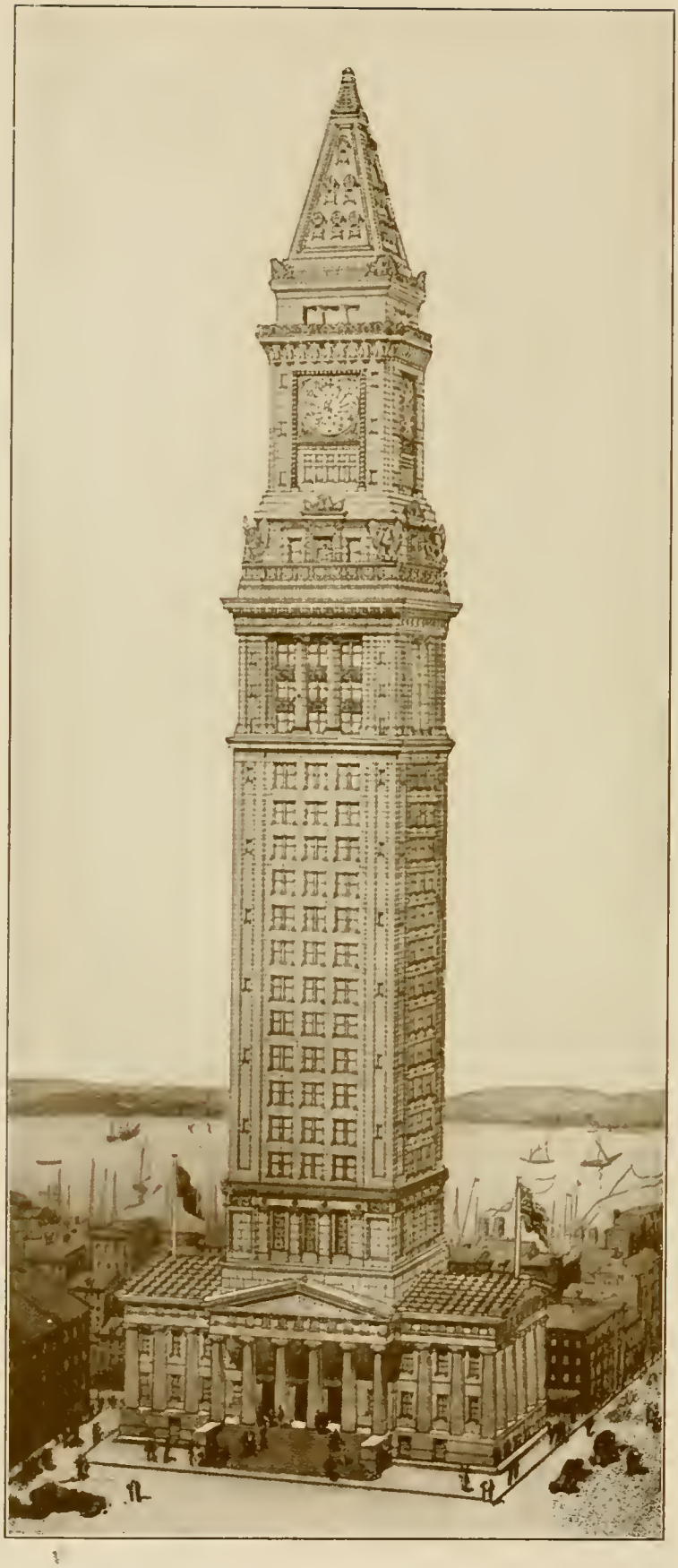

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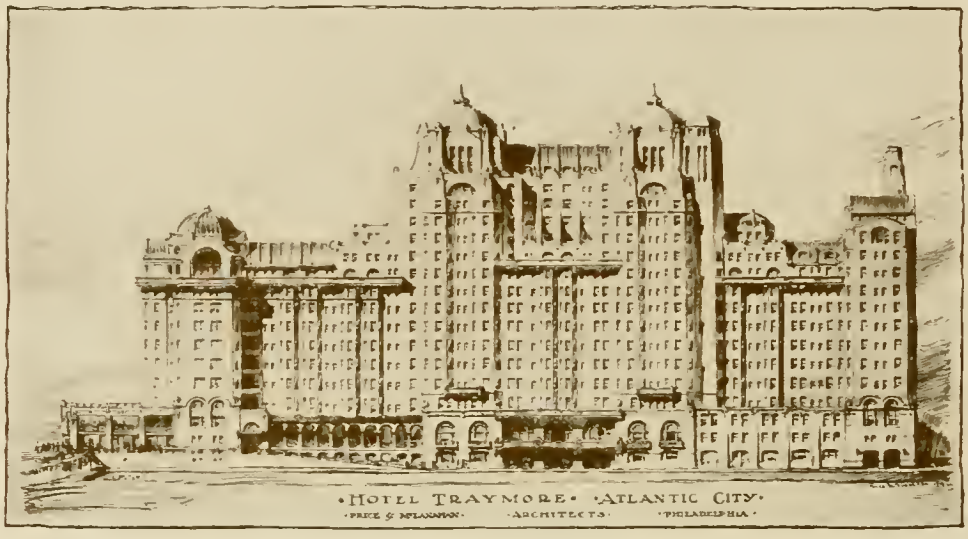

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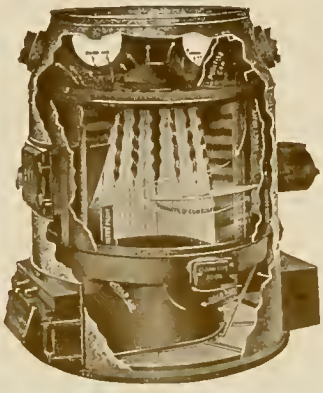

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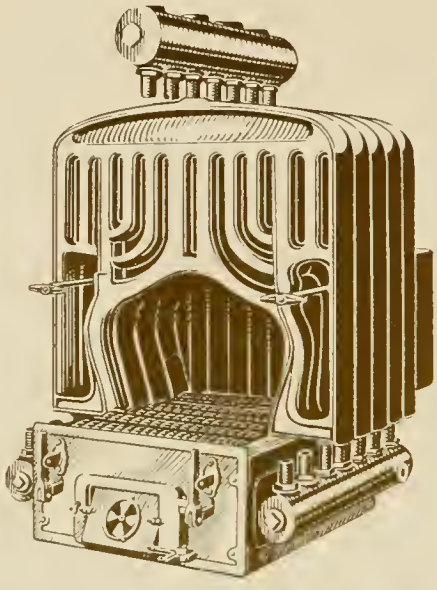

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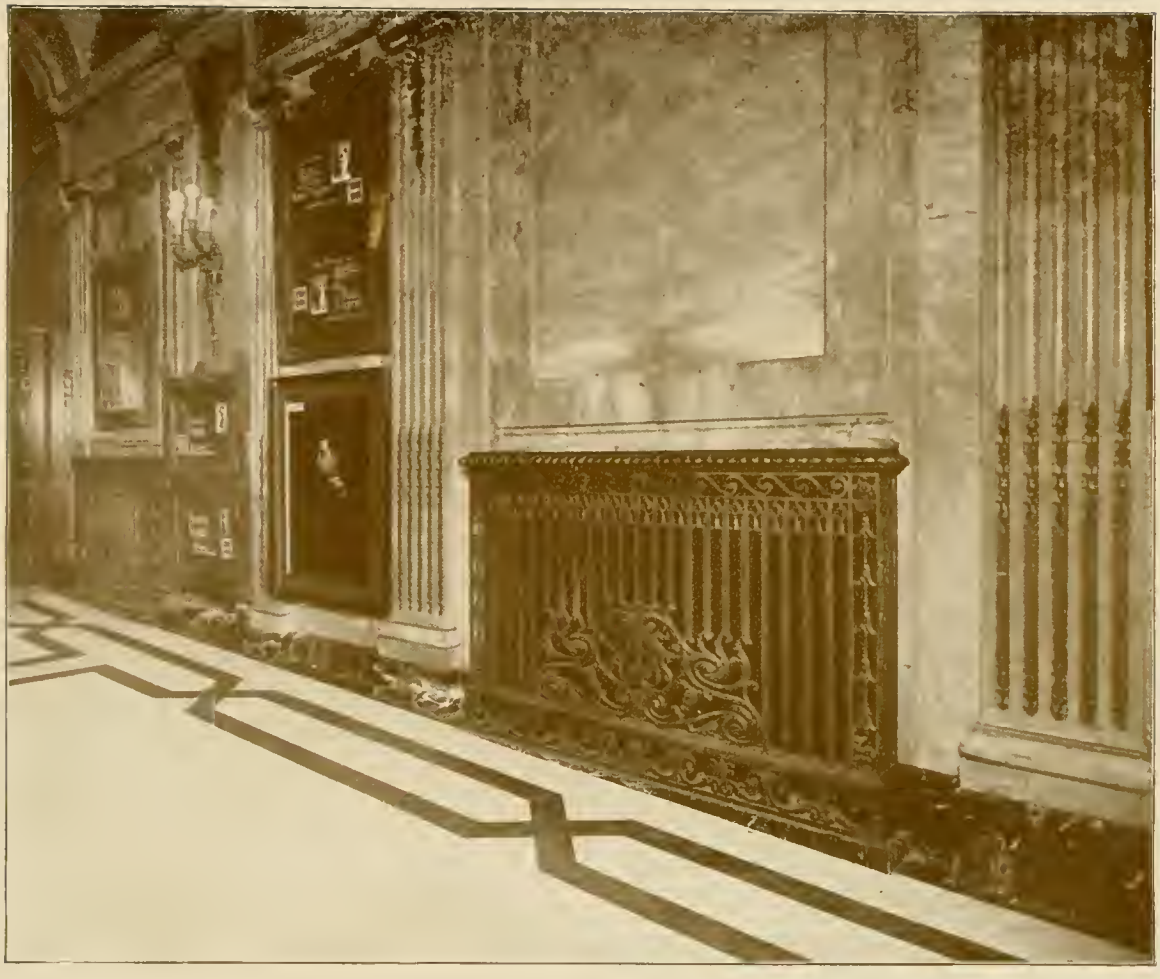

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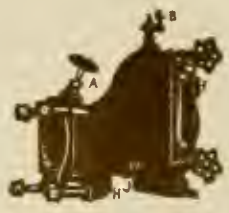

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